HT-D4500

5.1CH Blu-ray™ Home Entertainment System

user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service,
please register your product at
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SAMSUNG

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Safety Information

Safety Warnings

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lighting flash and Arrowhead within Triangle Is awarning a warning sign alerting you to dangerous voltage Inside the product.	**CAUTION** : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	The explanation point within the triangle is a warning sign alerting you to important instructions accompanying the product.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CLASS 1	**LASER PRODUCT**
KLASSE 1	**LASER PRODUKT**
LUOKAN 1	**LASER LAITE**
KLASS 1	**LASER APPARAT**
PRODUCTO	**LÁSER CLASE 1**

CLASS 1 LASER PRODUCT

- This product is classified as a CLASS 1 LASER product.
  Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Complies with 21CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

CAUTION

- Do not expose the apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases, on the apparatus.
- If the product is plugged in, you must pull the plug out of the wall socket to turn the product off completely. Consequently, any wall socket you plug the product into must be readily accessible.

DANGER

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)

CAUTION

- CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM (IEC 60825-1)
- THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances, such as radios and televisions, use shielded cables and connectors for connections.

FCC NOTE (for U.S.A)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION : FCC regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

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Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these Instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachment/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Precautions

- Ensure that the AC power supply in your house complies with specifications listed on the identification sticker located on the back of your product.
- Install your product horizontally, on a suitable base (furniture), with enough space around it for ventilation (7.5~10cm / 20~25 inches).
- Do not place the product on amplifiers or other equipment which may become hot. Make sure the ventilation slots are not covered.
- Do not stack anything on top of the product.
- Before moving the product, ensure the Disc Insert Hole is empty.
- To disconnect the product completely from the power supply, remove its plug from the wall outlet. - If you leave the product unused for a long period of time, disconnect the plug from the wall outlet.
- During thunderstorms, disconnect the AC plug from the wall outlet. Voltage spikes caused by lightning could damage the product.
- Do not expose the product to direct sunlight or other heat sources. This could cause the product to overheat and malfunction.
- Protect the product from moisture, excess heat, and equipment creating strong magnetic or electric fields (i.e. speakers.).
- Disconnect the power cable from the AC supply if the product malfunctions.
- Your product is not intended for industrial use. It is for personal use only.
- Condensation may occur if you store your product or a disc in cold temperatures. If transporting the product during the winter, wait approximately 2 hours until the product has reached room temperature before using.
- The batteries used with this product contain chemicals that are harmful to the environment. Do not dispose of batteries in the general household trash.

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Safety Information

Cautions on Handling and Storing Discs

Small scratches on the disc may reduce sound and picture quality or cause skipping.

Be especially careful not to scratch discs when handling them.

Holding discs

- Do not touch the playback side of the disc.
- Hold the disc by the edges so that fingerprints will not get on the surface.

- Do not stick paper or tape on the disc.

Disc Storage

- Do not keep in direct sunlight
- Keep in a cool ventilated area
- Keep in a clean protection jacket and store vertically.

NOTE

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

Handling and Storing Discs

If you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc

NOTE

- Condensation may form if warm air comes into contact with cold parts inside the product. When condensation forms inside the product, it may not operate correctly. If this occurs, remove the disc and let the product stand for 1 or 2 hours with the power on.

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- Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance.

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Getting Started

Key features of your new Blu-ray Home Theater

Product Features

Smart Hub
You can download various for pay or free-of charge applications through a network connection. These applications provide a range of Internet services and content including news, weather forecasts, stock market quotes, games, movies, and music.

AllShare
You can play videos, music and photos saved on your devices (such as your PC, mobile phones or NAS) through the home theater via a network connection.

Audio Sync function
Video may lag behind the audio if the product is connected to a digital TV.
To compensate for this, you can adjust the audio delay time so that the audio syncs with the video.

iPod & iPhone support
If you have connected an iPod player to the home theater using the iPod/iPhone specific USB cable, you can play the music files in the iPod/iPhone through the connected speakers.

BD Wise
BD Wise automatically adjusts BD Wise-compliant Samsung products to their optimal settings.
This feature is enabled only if BD Wise-compliant Samsung products are connected to each other using an HDMI cable.

Virtual 7.1
Applies the 7.1 CH sound effect using the 5.1 CH speaker system.

ARC (Audio Return Channel)
You can enjoy TV sound from the Home Theater speakers by using just one HDMI cable.

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Getting Started

Icons that will be used in manual

Make sure you understand the following terms before reading the rest of the user manual.

Term	Logo	Icon	Definition
BD-ROM	Blu-ray Disc	BD-ROM	Indicates a function available on a BD-ROM.
BD-RE/-R		BD-RE/-R	Indicates a function available on a BD-RE/-R disc recorded in the BD-RE format.
DVD-VIDEO	DVD VIDEO	DVD-VIDEO	Indicates a function available on a DVD-VIDEO.
DVD-RW(V)	DVD RW	DVD+RW/+R	Indicates a function available on recorded DVD+RW or DVD-RW(V)/DVD-R/+R discs that have been recorded and finalized.
DVD-R	DVD R		
DVD+RW	RW DVD+ReWritable		
DVD+R	RW DVD+R		
Audio CD	COMPACT disc DIGITAL AUDIO	Audio CD	Indicates a function available on an audio CD-RW/-R (CD-DA format).
MP3 WMA	-	MP3/WMA	Indicates a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing MP3 or WMA contents.
JPEG	-	JPEG	Indicates a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing JPEG contents.
DivX MKV MP4	DIVX HD DivX	DivX/MKV/MP4	Indicates a function available in a CD-RW/-R, DVD-RW/-R disc or a USB storage media containing DivX contents.
USB storage device	-	USB	Indicates a function available on a USB storage device.
CAUTION	-	!	Indicates a situation where a function does not operate or settings may be cancelled.
NOTE	-		Indicates tips or instructions that can help you operate a function better.
Shortcut Key	-		Indicates that you can access this function quickly and easily by pressing a button on the remote control.

- This product is compatible with the NTSC color system only.
- PAL discs will not play.

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Disc Types and Characteristics

Blu-ray Disc Compatibility

Blu-ray is a new and evolving format. Accordingly, disc compatibility issues are possible. Not all discs are compatible and not every disc will play back. For additional information, refer to the Disc Types and Characteristics section of this Manual.

✎ NOTE

- Playback may not work for some types of discs or when you use specific functions such as angle change and aspect ratio adjustment. Information about the discs is written in detail on the box. Please refer to this if necessary.
- Do not allow discs to become dirty or scratched. Fingerprints, dirt, dust, scratches, or deposits of cigarette smoke on the recording surface may make it impossible to playback a disc.
- When you play a BD-Java title, loading may take longer than a normal title or some functions may perform slowly.

Discs that cannot be played

- HD DVD Disc
- DVD-RAM
- 3.9 GB DVD-R Disc for Authoring.
- DVD-RW (VR mode)
- Super Audio CD (except CD layer)
- DVD-ROM/PD/MV-Disc, etc CVD/CD-ROM/ CDV/CD-G/CD-I/LD
- CDGs play audio only, not graphics.

✎ NOTE

- Some commercial discs and DVD discs purchased outside your region may not play on this product.
- If a DVD-R/-RW disc has not been recorded properly in DVD video format, it will not play on this product.

Logos of Discs that can be played

Blu-ray Disc	Dolby Digital Plus
NTSC broadcast system in U.S.A, Canada, Korea, Japan	Dolby TrueHD
DTS-HD High Resolution Audio	Java
DTS-HD Master Audio | Essential	BD-LIVE

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Region Code

Both the product and the discs are coded by region. These regional codes must match for the product to play the disc.If the codes do not match, the disc will not play.

Disc Type	Region Code	Area
Blu-ray		North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong and South East Asia.
		Europe, Greenland, French territories, Middle East, Africa, Australia and New Zealand.
		India, China, Russia, Central and South Asia.
DVD-VIDEO		The U.S., U.S. territories and Canada
		Europe, Japan, the Middle East, Egypt, South Africa, Greenland
		Taiwan, Korea, the Philippines, Indonesia, Hong Kong
		Mexico, South America, Central America, Australia, New Zealand, Pacific Islands, Caribbean
		Russia, Eastern Europe, India, most of Africa, North Korea, Mongolia
		China

Disc Types

BD-ROM

Blu-ray discs can only be played back.
This product can play back pre-recorded commercial BD-ROM discs.

BD-RE/-R

Blu-ray RE/-R discs can be recorded and played back. This product can play back a BD-RE/-R disc recorded by other compatible Blu-ray disc recorders.

DVD-VIDEO

- This product can play back pre-recorded commercial DVD discs (DVD-VIDEO discs) with movies.
- When switching from the first layer to the second layer of a dual-layered DVD-VIDEO disc, there may be momentary distortion in the image and sound. This is not a malfunction of the product.

DVD-RW/-R/+R

This product can play back a DVD-RW/-R/+R disc recorded and finalized with a DVD video recorder. The ability to play back may depend on recording conditions.

DVD+RW

- This product can play back a DVD+RW disc recorded with a DVD Video recorder. The ability to play back may depend on recording conditions.

Audio CD (CD-DA)

- This product can play back CD-DA format audio CD-RW/-R discs.
- The product may not be able to play some CD-RW/-R discs due to the condition of the recording.

CD-RW/-R

- Use 700MB (80 minute) CD-RW/-R discs. Do not use 800MB (90 minute) or larger discs, as these discs may not play back.
- If the CD-RW/-R disc was not recorded as a closed session, you may experience delays when playing back the beginning of the disc or all recorded files may not play.
- Some CD-RW/-R discs may not play on this product, depending on the device which was used to burn them. For contents recorded on CD-RW/-R media from CDs for your personal use, playability may vary depending on the contents and discs.

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Disc Format

Using JPEG discs

- The home theater can play back D-R/-RW, DVD-RW/-R discs recorded in the UDF or JOLIET format.
- Only JPEG files with the ".jpg", ".JPG", ".jpeg" or "JPEG" extension can be displayed.
- Progressive JPEG is supported.

DVD-RW/-R (V)

- This format is used for recording data on DVD-RW or DVD-R discs. This product can play DVD-RW or DVD-R discs if they have been finalized.
- If a disc that has been recorded in Video Mode by a different maker's recorder but has not been finalized, it cannot be played by this product.

Supported File Formats

Video File Support

File Extension	Container	Video Codec	Audio Codec	Resolution
*.avi	AVI	DivX 3.11/4.x/5.1/6.0	MP3 AC3 LPCM ADPCM DTS Core	1920x1080
		H.264 BP/MP/HP		1920x1080
		MPEG4 SP/ASP		1920x1080
		Motion JPEG		1920x1080
*.mkv	MKV	DivX 3.11/4.x/5.1/6.0	MP3 AC3 LPCM ADPCM DTS Core	1920x1080
		H.264 BP/MP/HP		1920x1080
		MPEG4 SP/ASP		1920x1080
		Motion JPEG		1920x1080
*.asf	ASF	DivX 3.11/4.x/5.1/6.0	MP3 AC3 LPCM ADPCM WMA	1920x1080
		H.264 BP/MP/HP		1920x1080
		MPEG4 SP/ASP		1920x1080
		Motion JPEG		1920x1080
*.wmv	ASF	Window Media Video v9	WMA	1920x1080
*.mp4	MP4	H.264 BP/MP/HP	MP3 ADPCM AAC	1920x1080
		MPEG4 SP/ASP		1920x1080
*.3gp	3GPP	H.264 BP/MP/HP	ADPCM AAC HE-AAC	1920x1080
		MPEG4 SP/ASP		1920x1080

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File Extension	Container	Video Codec	Audio Codec	Resolution
*.vro	VRO VOB	MPEG2	AC3 MPEG LPCM	1920x1080
		MPEG1		352x288
*.mpg *.mpeg	PS	MPEG1	AC3 MPEG LPCM AAC	352x288
		MPEG2		1920x1080
		H.264		1920x1080
*.ts *.tp *.trp	TS	MPEG2	AC3 AAC MP3 DD+ HE-AAC	1920x1080
		H.264		1920x1080
		VC1		1920x1080

Restrictions

- Some of the Codecs listed above will not play if there is a problem with the contents.
- Corrupt video sources or sources with incorrect container information will not play properly.
- AV sources that exceed the standard bit rate or frame rate may not play properly.
- If the index table is corrupt, the Seek (Jump) function will not be supported.
- If you play a video via the network, it may not play properly depending on the network status.

Video decoder

- Up to H.264 Level 4.1 supported.
- H.264 FMO/ASO/RS, VC1 SP/MP/AP L4, and AVCHD are not supported.
- MPEG4 SP, ASP :
  - Below 1280 x 720: 60 frame max
  - Above 1280 x 720: 30 frame max
- GMC 2 or higher is not supported.

Audio decoder

- Up to WMA 7,8,9 is supported.
- WMA 9 PRO with more than two channels (multi-channel) is not supported.
- WMA 9 Lossless, Voice is not supported.
- WMA sampling rate at 22050Hz mono is not supported.

Music File Support

File Extension	Container	Audio Codec	Support Range
*.mp3	MP3	MP3	-
*.wma	WMA	WMA	Compliant with WMA version 10 * Sampling rates (in kHz) - 8, 11, 16, 22, 32, 44.1, 48 * Bit rates - All bit-rates in the range 5kbps to 384kbps

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Notes on the USB connection

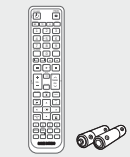
Supported devices:

USB storage media, MP3 player, digital camera, USB card reader

1) The product does not support folder or file names longer than 125 characters.
2) A subtitle file bigger than 300 KB may not be properly displayed.
3) Some USB/digital camera devices may not be compatible with the product.
4) The praoduct supports the FAT16 and FAT32 file systems.
5) Photo (JPEG), music (MP3,) and video files must have Korean or English file names. Otherwise, the files will not play.
6) Connect USB devices directly to the product's USB port. Connecting through a USB cable may cause compatibility problems.
7) Inserting more than one memory device into a multi-card reader may cause the reader to operate improperly.
8) The product does not support the PTP protocol for digital cameras
9) Do not disconnect a USB device during a "loading" process.
10) The bigger the image resolution, the longer the image takes to display.
11) This player cannot play MP3 files with DRM (Digital Rights Management) downloaded from commercial sites.

Accessories

Check the box for the supplied accessories listed below.

			
Video Cable (AH39-40001V)	FM Antenna (AH42-00017A)	User's Manual (AH68-02406Q)	Remote Control (AH59-02333A)/ Batteries (AAA size) (4301-000116)

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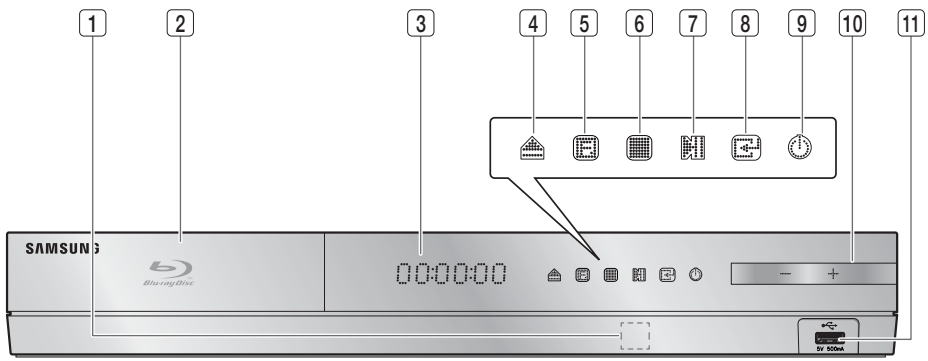
Description

Front Panel



1	REMOTE CONTROL SENSOR	Detects signals from the remote control.
2	DISC TRAY	Opens to accept a disc.
3	DISPLAY	Displays the playing status, time, etc.
4	OPEN/CLOSE BUTTON	Opens and closes the disc tray.
5	FUNCTION BUTTON	Switches the mode as follows: **BD/DVD → D. IN → AUX → R. IPOD → FM**
6	STOP BUTTON	Stops disc playback.
7	PLAY/PAUSE BUTTON	Plays a disc or pauses playback.
8	ENTER BUTTON	Selects menu items or starts a Blu-ray disc. (It will not start a DVD disc.)
9	POWER BUTTON (⏻)	Turns the product on and off.
10	VOLUME CONTROL	Volume adjustment.
11	USB PORT	You can connect a USB memory flash stick here and use it as storage when the product is connected to BD-LIVE. You can also use the USB Host for software upgrades and MP3/JPEG/ DivX/MKV/MP4 playback . In addition, you can connect an iPod to the USB port using a cable. (not supplied)

NOTE

- You must use a USB memory flash stick to perform a software upgrade using the USB Host jack.
- When the product displays the Blu-ray disc menu, you cannot start the movie by pressing the **PLAY** button on the product or the remote. To play the movie, you must select Play Movie or Start in the disc menu, and then press the **ENTER** button.

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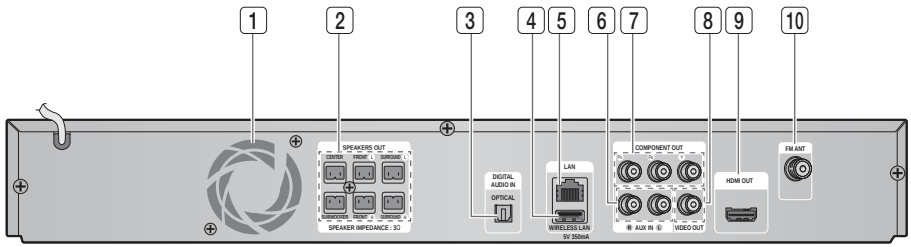
Rear Panel



1	COOLING FAN	The cooling fan supplies cool air to the product to prevent overheating and always revolves when the power is on.
2	5.1 CHANNEL SPEAKER OUTPUT CONNECTORS	Connect the front, center, surround, subwoofer speakers.
3	EXTERNAL DIGITAL AUDIO IN JACK (OPTICAL)	Connect to the Digital Optical out jack of an external device using a Digital Optical cable.
4	WIRELESS LAN JACK	Can be used for network based services (see pages 53~62), BD-LIVE and software upgrade with a wireless LAN adapter.
5	LAN TERMINAL	Can be used for network based services (see pages 53~62), BD-LIVE, and software upgrades with a wired network connection.
6	AUX IN JACKS	Connect to the 2CH analog output of an external device (such as a VCR)
7	COMPONENT VIDEO OUT JACKS	Connect to your TV's Component video input jacks (Y, P_B, P_R).
8	VIDEO OUT JACK	Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT Jack on this product.
9	HDMI OUT JACK	Using an HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture.
10	FM ANTENNA JACK	Connect the FM antenna.

! CAUTION

- Ensure there is a minimum of 4 inches of clear space on all sides of the home theater to ensure adequate ventilation.
- Do not obstruct the cooling fan or ventilation holes.

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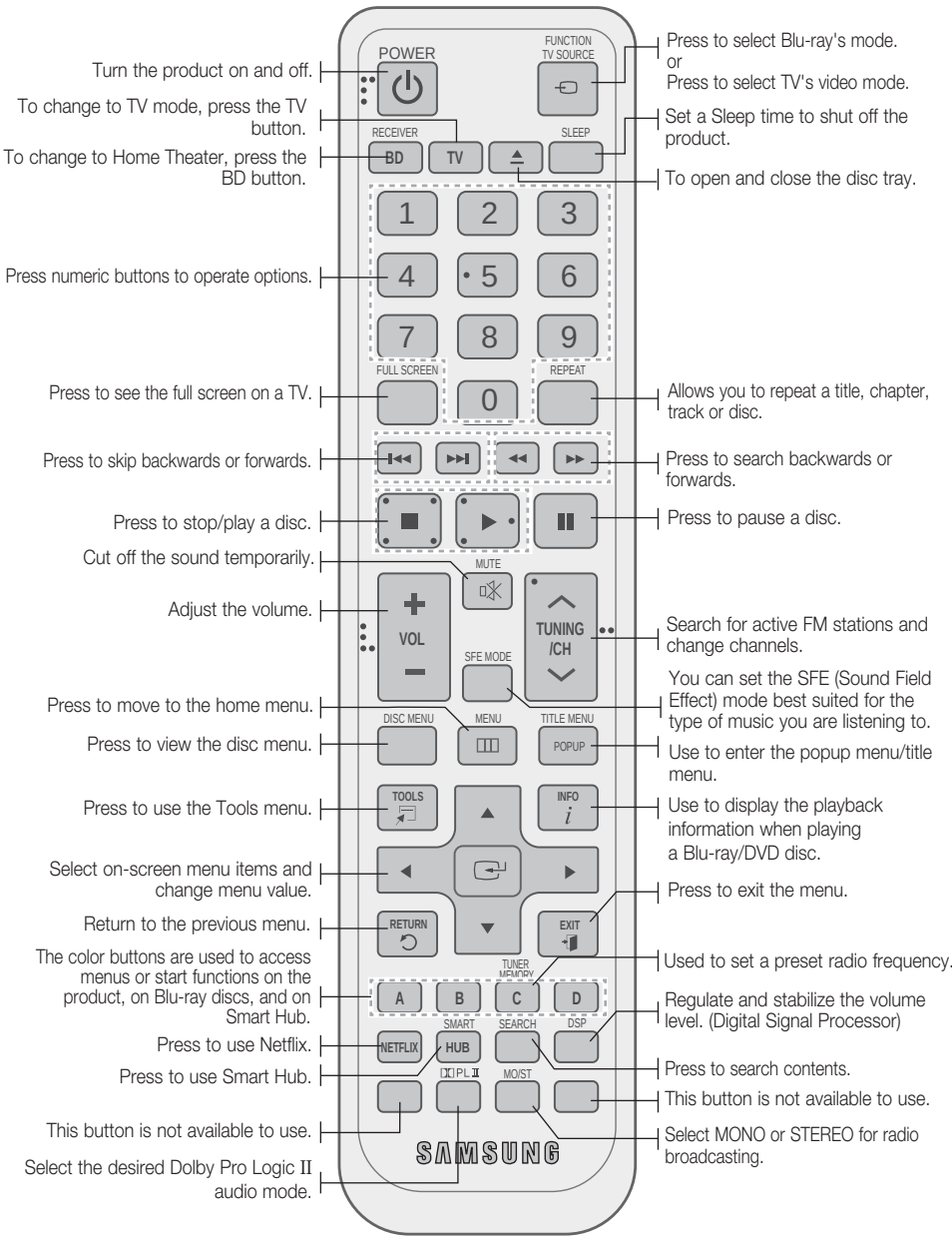
Remote Control

Tour of the Remote Control


Turn the product on and off.
To change to TV mode, press the TV button.
To change to Home Theater, press the BD button.
Press numeric buttons to operate options.
Press to see the full screen on a TV.
Press to skip backwards or forwards.
Press to stop/play a disc.
Cut off the sound temporarily.
Adjust the volume.
Press to move to the home menu.
Press to view the disc menu.
Press to use the Tools menu.
Select on-screen menu items and change menu value.
Return to the previous menu.
The color buttons are used to access menus or start functions on the product, on Blu-ray discs, and on Smart Hub.
Press to use Netflix.
Press to use Smart Hub.
This button is not available to use.
Select the desired Dolby Pro Logic II audio mode.
Press to select Blu-ray's mode. or Press to select TV's video mode.
Set a Sleep time to shut off the product.
To open and close the disc tray.
Allows you to repeat a title, chapter, track or disc.
Press to search backwards or forwards.
Press to pause a disc.
Search for active FM stations and change channels.
You can set the SFE (Sound Field Effect) mode best suited for the type of music you are listening to.
Use to enter the popup menu/title menu.
Use to display the playback information when playing a Blu-ray/DVD disc.
Press to exit the menu.
Used to set a preset radio frequency.
Regulate and stabilize the volume level. (Digital Signal Processor)
Press to search contents.
This button is not available to use.
Select MONO or STEREO for radio broadcasting.
POWER
FUNCTION
TV SOURCE
RECEIVER
BD
TV
SLEEP
1
2
3
4
5
6
7
8
9
0
FULL SCREEN
REPEAT
MUTE
VOL
TUNING
/CH
SFE MODE
DISC MENU
MENU
TITLE MENU
POPUP
TOOLS
INFO
RETURN
EXIT
TUNER MEMORY
A
B
C
D
SMART
SEARCH
DSP
NETFLIX
HUB
PL II
MO/ST
SAMSUNG

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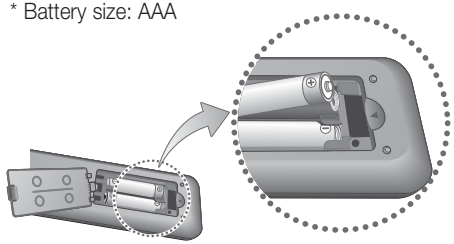
Installing batteries in the Remote Control

* Battery size: AAA



NOTE

- Make sure to match the "+" and "–" ends of the batteries with the diagram inside the compartment.
- Assuming typical TV usage, the batteries last for about one year.
- The remote control can be used up to approximately 23 feet (7 meters) in a straight line.

Setting the Remote Control

You can control certain functions of your TV with this remote control.

To set the remote to operate your TV

1. Press the **TV** button to set the remote control to TV mode.
2. Turn on your TV.
3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.
   - **Example : For a Samsung TV**
     While holding down the **POWER** button, use the number buttons to enter 00. If that does not work, try 15, then 16, etc.
4. If the TV turns off, the setting is complete.
   - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

NOTE

- The remote control may not work on some brands of TV's. Also, some operations may not be possible, depending on your brand of TV.
- The remote control will work with Samsung TVs by default.

TV Brand Code List

Brand	Code
Admiral (M.Wards)	56, 57, 58
A Mark	01, 15
Anam	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14
AOC	01, 18, 40, 48
Bell & Howell (M.Wards)	57, 58, 81
Brocsonic	59, 60
Candle	18
Cetronic	03
Citizen	03, 18, 25
Cinema	97
Classic	03
Concerto	18
Contec	46
Coronado	15
Craig	03, 05, 61, 82, 83, 84
Croslex	62
Crown	03
Curtis Mates	59, 61, 63
CXC	03
Daewoo	02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90
Daytron	40
Dynasty	03
Emerson	03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85
Fisher	19, 65
Funai	03
Futuretech	03
General Electric (GE)	06, 40, 56, 59, 66, 67, 68
Hall Mark	40
Hitachi	15, 18, 50, 59, 69
Inkel	45
JC Penny	56, 59, 67, 86
JVC	70
KTV	59, 61, 87, 88
KEC	03, 15, 40
KMC	15
LG (Goldstar)	01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44
Luxman	18
LXI (Sears)	19, 54, 56, 59, 60, 62, 63, 65, 71
Magnavox	15, 17, 18, 48, 54, 59, 60, 62, 72, 89
Marantz	40, 54
Matsui	54
MGA	18, 40

Brand	Code
Mitsubishi/ MGA	18, 40, 59, 60, 75
MTC	18
NEC	18, 19, 20, 40, 59, 60
Nikei	03
Onking	03
Onwa	03
Panasonic	06, 07, 08, 09, 54, 66, 67, 73, 74
Penney	18
Philco	03, 15, 17, 18, 48, 54, 59, 62, 69, 90
Philips	15, 17, 18, 40, 48, 54, 62, 72
Pioneer	63, 66, 80, 91
Portland	15, 18, 59
Proton	40
Quasar	06, 66, 67
Radio Shack	17, 48, 56, 60, 61, 75
RCA/ Proscan	18, 59, 67, 76, 77, 78, 92, 93, 94
Realistic	03, 19
Sampo	40
Samsung	00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98
Sanyo	19, 61, 65
Scott	03, 40, 60, 61
Sears	15, 18, 19
Sharp	15, 57, 64
Signature 2000 (M.Wards)	57, 58
Sony	50, 51, 52, 53, 55
Soundesign	03, 40
Spectricon	01
SSS	18
Sylvania	18, 40, 48, 54, 59, 60, 62
Symphonic	61, 95, 96
Tatung	06
Techwood	18
Teknika	03, 15, 18, 25
TMK	18, 40
Toshiba	19, 57, 63, 71
Vidtech	18
Videch	59, 60, 69
Wards	15, 17, 18, 40, 48, 54, 60, 64
Yamaha	18
York	40
Yupiteru	03
Zenith	58, 79
Zonda	01
Dongyang	03, 54

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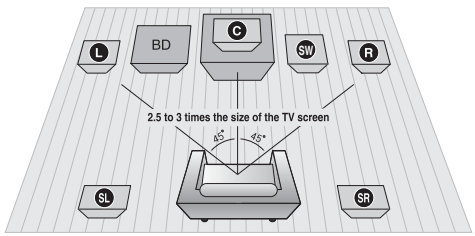
Connections

This section describes various methods of connecting the product to other external components. Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

Connecting the Speakers



Position of the product

Place it on a stand or cabinet shelf, or under the TV stand.

Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV.

Example : For 32" TV's 6.56 ~ 7.87 feet (2~2.4m)
For 55" TV's 11.5 ~ 13.1 feet (3.5~4m)

Front Speakers L R	Place these speakers in front of your listening position, facing inwards (about 45°) toward you. Place the speakers so that their tweeters will be at the same height as your ear. Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.
Center Speaker C	It is best to install the Center Speaker at the same height as the front speakers. You can also install it directly over or under the TV.
Surround Speakers SL SR	Place these speakers to the side of your listening position. If there isn't enough room, place these speakers so they face each other. Position them about 2 to 3 feet (60 to 90cm) above your ear, facing slightly downward. * Unlike the front and center speakers, the surround speakers are used mainly for sound effects. Sound will not come from them all the time.
Subwoofer SW	The position of the subwoofer is not so critical. Place it anywhere you like.

! CAUTION

- Do not let children play with or near the speakers. They could get hurt if a speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.
- Keep the subwoofer speaker out of reach of children to prevent children from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on the wall through the duct (hole).

✎ NOTE

- If you place a speaker near your TV set, the screen color may be distorted because of the magnetic field. If this occurs, place the speaker away from your TV set.

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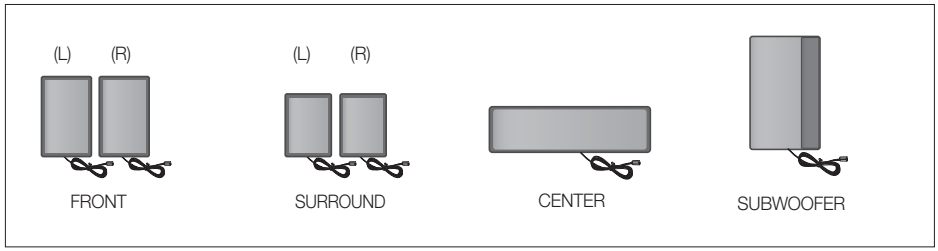
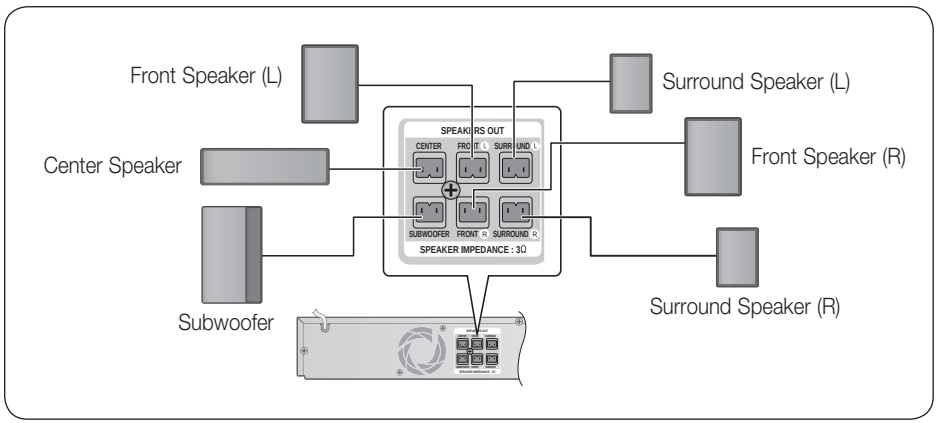
Speaker Components



Connecting The Speakers

1. Connect the connecting plugs to the back of the product by matching the colors of the speaker plugs to the speaker jacks.



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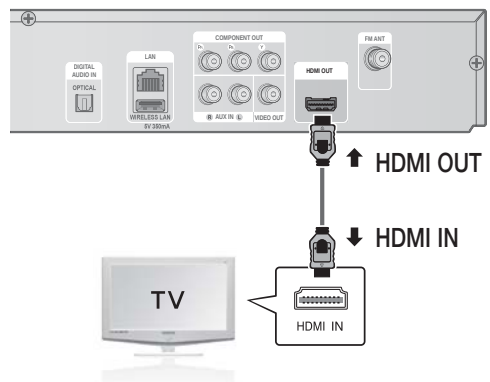
Connecting the Video Out to your TV

Choose one of the three methods for connecting to a TV.

METHOD 1



METHOD 1 : HDMI (BEST QUALITY)

Connect an HDMI cable (not supplied) from the HDMI OUT jack on the back of the product to the HDMI IN jack on your TV.

NOTE

- Certain HDMI output resolutions may not work, depending on your TV.
- After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your product.
  See your TV owner's manual for more information on how to select the TV's Video Input source.
- If you have set the product's remote control to operate your TV, press the **TV SOURCE** button on the remote control and select HDMI as the external source of the TV.

HDMI Auto Detection Function

1. Using an HDMI cable, connect the HDMI OUT terminal on the rear of the product to the HDMI IN terminal of your TV.
2. Turn on the product and TV.

For possible HDMI resolutions, see page 27.

- This function is not available if the HDMI cable does not support CEC.
- HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the product transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- HDMI connection description
  - HDMI outputs only a pure digital signal to the TV.
  - If your TV does not support HDCP, random noise appears on the screen.
- What is the HDCP?
  HDCP (High-band width Digital Content Protection) is a system for protecting BD/DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.

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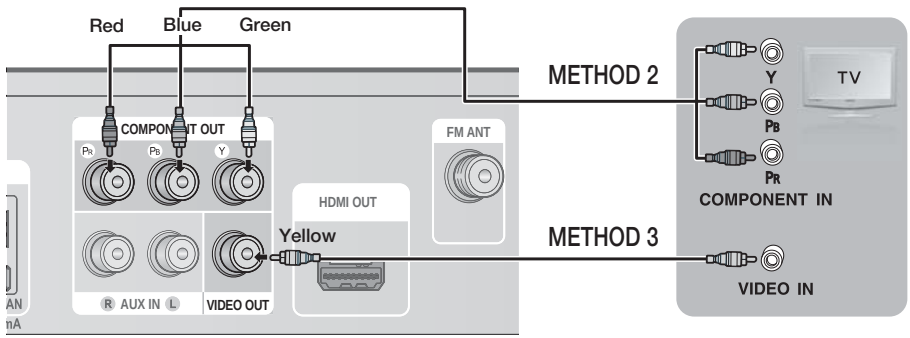

METHOD 2 : Component Video (BETTER QUALITY)

If your television is equipped with Component Video inputs, connect a Component video cable (not supplied) from the Component Video Output (P_R, P_B and Y) Jacks on the back of the product to the Component Video Input Jacks on your TV.

NOTE

- You can select from a variety of resolution settings such as 1080i, 720p, 480p and 480i, depending on the disc type. (See page 27)
- The actual resolution may differ from the setting in the Setup menu if both Component and HDMI cables are connected. The resolution may also be different depending on the disc. (See page 27)
- After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your product.
  See your TV owner's manual for more information on how to select the TV's Video Input source.
- If you have set the product's remote control to operate your TV, press the **TV SOURCE** button on the remote control and select COMPONENT as the external source of the TV.
- In DVD playback, if both HDMI and Component jacks are connected and you select the Component 1080p, 1080i, 720p or 480p mode, the Display Setup menu will show the output resolution as 1080p, 1080i, 720p or 480p in the menu. The resolution is actually 480i.

METHOD 3 : Composite Video (GOOD QUALITY)

Connect the supplied Video cable from the VIDEO OUT jack on the back of the product to the VIDEO IN jack on your TV.

NOTE

- The VIDEO source always outputs in 480i resolution regardless of the resolution set in the Setup menu. (See page 27)
- After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your product.
  See your TV owner's manual for more information on how to select the TV's Video Input source.
- If you have set the product's remote control to operate your TV, press the **TV SOURCE** button on the remote control and select VIDEO as the external source of the TV.

! CAUTION

- Do not connect the unit through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the television.

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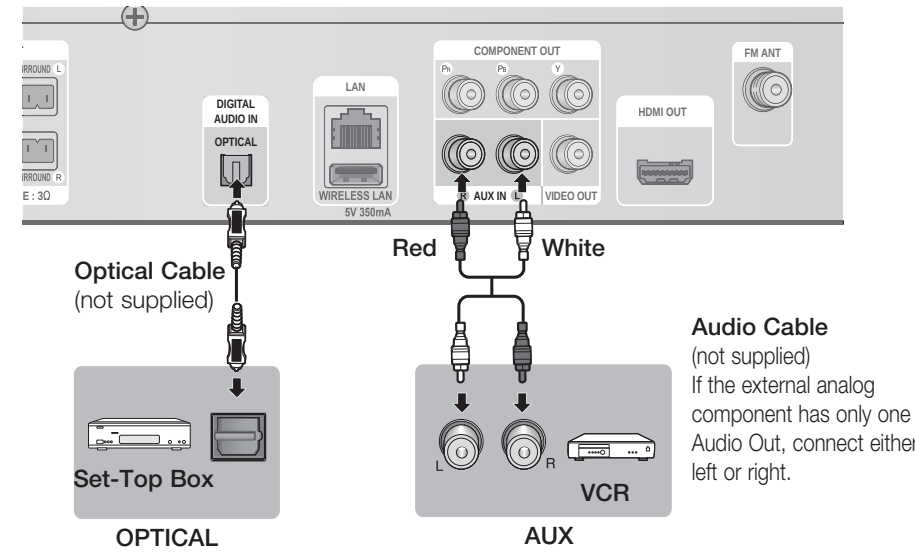
Connections

Connecting Audio from External Components



OPTICAL : Connecting an External Digital Component

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

1. Connect the Digital Input (OPTICAL) on the product to the Digital Output of the external digital component.
2. Press the **FUNCTION** button to select **D. IN** input.
   - The mode switches as follows : **BD/DVD → D. IN → AUX → R. IPOD → FM**

NOTE

- To see video from your Cable Box/Satellite receiver, you must connect it's video output to a TV.
- This system supports Digital sampling frequencies of 32 kHz or higher from external digital components.
- This system supports only DTS and Dolby Digital audio. MPEG audio, which is bitstream, is not supported.

AUX : Connecting an External Analog Component

Analog signal components such as a VCR.

1. Connect AUX IN (Audio) on the product to the Audio Out of the external analog component.
   - Be sure to match connector colors.
2. Press the **FUNCTION** button to select **AUX** input.
   - The mode switches as follows : **BD/DVD → D. IN → AUX → R. IPOD → FM**

NOTE

- You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product.

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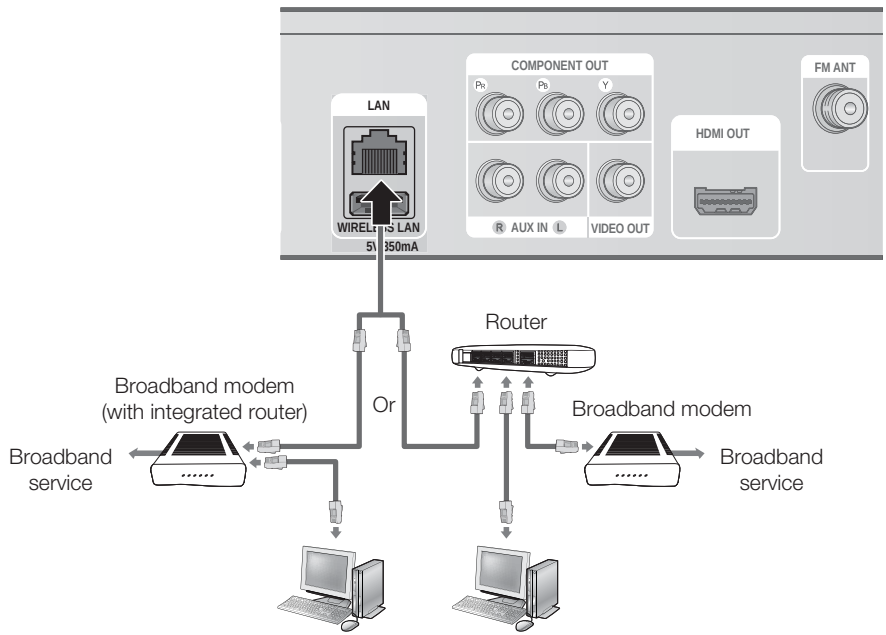
Connecting to a Network

You can connect this product to a network and use network based services such Smart Hub and BD-LIVE (See pages 53~62), as well as receive software upgrades through the network connection. We recommend using a wireless router or IP router for the connection.

For more information on router connection, refer to the user manual of the router or contact the router manufacturer for technical assistance.

Cable Network

1. Using a Direct LAN Cable (UTP cable), connect the LAN terminal of the product to the LAN terminal of your modem.
2. Set the network options. (See page 33)



Networking with PC for
AllShare function
(See page 62)

NOTE

- Internet access to Samsung's software update server may not be allowed, depending on the router you use or the ISP's policy. For more information, contact your ISP (Internet Service Provider).
- DSL users, please use a router to make a network connection.
- To use the AllShare function, you must connect your PC to the network as shown in the figure.

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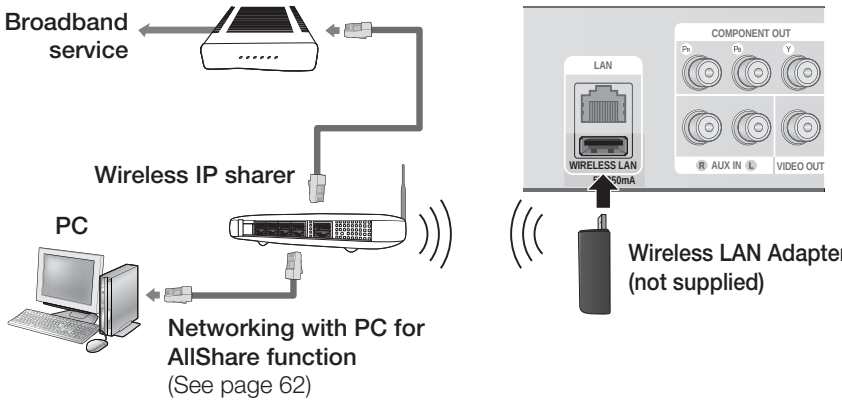
Wireless Network

You can connect the home theater to your network through a wireless IP sharer (router).

1. Connect the wireless LAN adapter (sold separately) to the Wireless LAN Adapter jack on the rear panel of the product.
2. Set the network options. (See page 33)

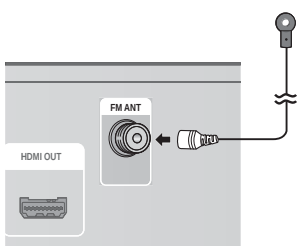


NOTE

- This product is compatible with Samsung's Wireless LAN Adapter only. (Model name: WIS09ABGN).
  - The Samsung Wireless LAN Adapter is sold separately. Contact a Samsung Electronics retailer to purchasing.
- You must use a wireless IP sharer that supports IEEE 802.11 a/b/g/n. (n is recommended for stable operation of the wireless network.)
- Wireless LAN, by its nature, may cause interference, depending on the network environment (router performance, distance, obstacles, interference by other radio devices, etc).
- Set the wireless IP sharer to Infrastructure mode. Ad-hoc mode is not supported.
- The home theater supports the following security protocols only:
  1) Authentication Mode : WEP, WPAPSK, WPA2PSK
  2) Encryption Type : WEP, AES
- For the AllShare function, a PC must be connected in the network as shown in the figure.

Connecting the FM Antenna

FM Antenna (supplied)



1. Connect the FM antenna supplied to the FM ANTENNA Jack.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

NOTE

- This product does not receive AM broadcasts.

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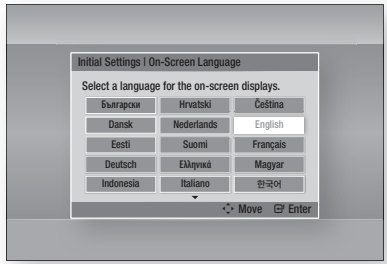
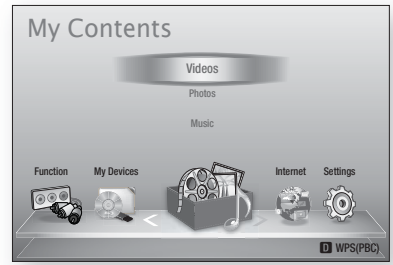
Initial Settings

1. Connect the product to your TV, turn on your TV, and then turn on the product. When you turn on the product for the first time, the Initial Settings screen appears.



2. Press the ▲▼◄► buttons to select the desired language, and then press the **ENTER** button.
3. Press the **ENTER** button to select **Start**.
4. Press the ▲▼ buttons to select the desired TV Aspect Ratio, and then press the **ENTER** button. (See page 27)
5. Press the ▲▼ buttons to select the desired Network Setting : **Wired, Wireless (General), WPS(PBC)** or **One Foot Connection**, and then press the **ENTER** button. If you do not know the details of your Network Settings, press the **BLUE (D)** button on your remote instead to skip Network Settings here, finish the Initial Settings, and go to the Home menu.
   If you selected a Network Setting, go to pages 33~36 for more information about the Network settings. When done, go to Step 6.
6. The Home menu appears. (For more information about the Home menu, please see page 26.)

• Home Menu



NOTE

- The Home menu will not appear if you do not configure the initial settings except as noted below.
- If you press the **BLUE (D)** button during the Network setup, you can access the Home menu even if the network setup is not completed yet.
- If you want to display the Initial Setting screen again to make changes, select the Initial Settings. (See page 37)
- If you use an HDMI cable to connect the product to an **Anynet+ (HDMI-CEC)**-compliant Samsung TV and 1.) You have set the **Anynet+ (HDMI-CEC)** feature to **On** in both the TV and the product and 2.) You have set the TV to a language supported by the product, the product will select that language as the preferred language automatically.
- If you leave the product in the stop mode for more than 5 minutes without using it, a screen saver will appear on your TV. If the product is left in the screen saver mode for more than 20 minutes, the power will automatically turn off.

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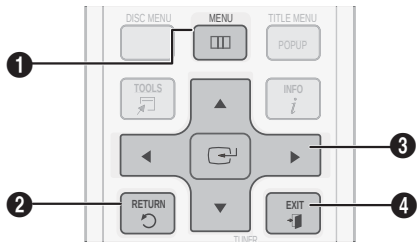
Accessing the Settings Menu

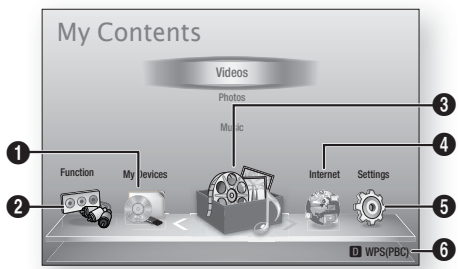


1	**MENU** Button : Press to move to the Home menu.
2	**RETURN** Button : Return to the previous menu.
3	**ENTER / DIRECTION** Button : Move the cursor or select an item. Activate the currently selected item. Confirm a setting.
4	**EXIT** Button : Press to exit the current menu.

To access the Settings menu and sub-menus, follow these steps:

1. Press the **POWER** button.
   The Home Menu appears.

• **Home Menu**



1	Selects My Devices.
2	Selects Function.
3	Selects My Contents.
4	Selects Internet.
5	Selects Settings.
6	Displays the buttons available.

2. Press the ◄► buttons to select **Settings**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select the desired submenu, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select the desired item, and then press the **ENTER** button.
5. Press the **EXIT** button to exit the menu.

NOTE

- When the product is connected to a network, select **Internet** from the Home menu to download desired content from **Samsung Apps**. (See pages 60~62)
- The access steps may differ depending on the menu you selected.
- The OSD (On Screen Display) may change in this product after you upgrade the software version.

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Display

You can configure various display options such as the TV Aspect Ratio, Resolution, etc.

TV Aspect (Picture Size and Format)

Depending on the type of television you have, you may want to adjust the screen size setting.

- **16:9 Original** : Select when you connect the product to a 16:9 TV screen. The product will display all content in its original aspect ratio. Content formatted in 4:3 will be displayed with black bars on the left and right.
- **16:9 Full** : Select when you connect the product to a 16:9 TV screen. All content will fill the full screen. Content formatted in 4:3 will be stretched.
- **4:3 Letter Box** : Select when you connect the product to a 4:3 TV screen. The product will display all content in its original aspect ratio. Content formatted in 16:9 will be displayed with black bars on the top and bottom.
- **4:3 Pan-Scan** : Select when you connect the product to a 4:3 TV screen. 16:9 content will have the extreme left and right portions cut off.

✎ NOTE

- Depending on the disc type, some aspect ratios may not be available.
- If you select an aspect ratio and option which is different than the aspect ratio of your TV screen, then the picture might appear to be distorted.
- If you select the 16:9 Original, your TV may display 4:3 Pillarbox (black bars on sides of picture).

Smart Hub Screen Size

Set the Smart Hub Screen to the optimal size.

- **Size 1** : The Smart Hub screen size will be smaller than the default. You may see some black on sides of screen.
- **Size 2** : This is the default setting for Smart Hub. The product displays the normal Smart Hub screen size.
- **Size 3** : This will display a larger Smart Hub screen size. The image may be too large for your TV screen.

BD Wise (Samsung Products only)

BD Wise is Samsung's latest inter-connectivity feature.

When you connect a Samsung product and a Samsung TV with BD Wise to each other via HDMI, and BD Wise is on in both the product and TV, the product outputs video at the video resolution and frame rate of the BD/DVD disc.

- **Off** : The output resolution stays fixed at the resolution you set previously in the Resolution menu, regardless of the resolution of the disc. See Resolution below.
- **On** : The product outputs video at the original resolution and frame rate of the BD/DVD disc.

✎ NOTE

- When BD Wise is on, the Resolution setting automatically defaults to BD Wise and BD Wise appears in the Resolution menu.
- If the product is connected to a device that does not support BD Wise, you can not use the BD Wise function.
- For proper operation of BD Wise, set the BD Wise menu of both the product and the TV to **On**.

Resolution

Lets you set the output resolution of the Component and HDMI video signal to Auto, 1080p, 1080i, 720p, 480p, or 480i. The number indicates the number of lines of video per frame. The i and p indicate interlaced and progressive scan, respectively. The more lines, the higher the quality.

- **Auto** : Automatically sets the output resolution to the connected TV's maximum resolution.
- **BD Wise** : Automatically sets the resolution to the resolution of the BD/DVD disc if you have connected the product via HDMI to a TV with the BD Wise feature. (The BD Wise menu item appears only if BD Wise is set to **On**. See BD Wise above.)
- **1080p** : Outputs 1080 lines of progressive video. (HDMI only)
- **1080i** : Outputs 1080 lines of interlaced video.
- **720p** : Outputs 720 lines of progressive video.
- **480p** : Outputs 480 lines of progressive video.
- **480i** : Outputs 480 lines of interlaced video. (VIDEO only)

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Resolution according to the output mode

- **Blu-ray Disc/E-contents/Digital Contents playback**

Setup \ Output	HDMI / connected			HDMI / not connected		
	HDMI Mode		Component/ VIDEO Mode	Component Mode		VIDEO Mode
	Blu-ray Disc	E-contents/ Digital contents		Blu-ray Disc	E-contents/ Digital contents	
BD Wise	Resolution of Blu-ray Disc	1080p@60F	480i	-	-	-
Auto	Max. Resolution of TV input	Max. Resolution of TV input	480i	-	-	-
1080p@60F	1080p@60F	1080p@60F	480i	-	-	-
Movie Frame : Auto (24Fs)	1080p@24F	1080p@24F	480i	-	-	-
1080i	1080i	1080i	480i	480i	1080i	480i
720p	720p	720p	480i	480i	720p	480i
480p	480p	480p	480i	480i	480p	480i
480i	-	-	-	480i	480i	480i

- **DVD playback**

Setup \ Output	HDMI / connected		HDMI / not connected	
	HDMI Mode	Component/VIDEO Mode	Component Mode	VIDEO Mode
BD Wise	480i	480i	-	-
Auto	Max. Resolution of TV input	480i	-	-
1080p@60F	1080p@60F	480i	-	-
1080i	1080i	480i	480p	480i
720p	720p	480i	480p	480i
480p	480p	480i	480p	480i
480i	-	-	480i	480i

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✎ NOTE

- If the TV you connected to the product does not support Movie Frame or the resolution you selected, the message “If no pictures are shown after the selection, please wait for 15 seconds. And then, the resolution will be reverted to the previous value automatically. Would you like to make a selection?” appears. If you select **Yes**, the TV’s screen will go blank for 15 seconds, and then the resolution will revert to the previous resolution automatically.
- If the screen stays blank after you have changed the resolution, remove all discs, and then press and hold the **STOP** (■) button on the front of the product for more than 5 seconds. All settings are restored to the factory default. Follow the steps on the previous page to access each mode and select the Display Setup that your TV will support.
- When the factory default settings are restored, all stored user BD data is deleted.
- The Blu-ray Disc must have the 24 frame feature for the product to use the Movie Frame (24Fs) mode.
- If both HDMI and Component jacks are connected and you are currently viewing Component output, the resolution is fixed to 480i.

HDMI Color Format

Lets you set the color space format for HDMI output to match the capabilities of the connected device (TV, monitor, etc).

- **Auto** : Automatically sets the product to the optimum format supported by your device.
- **YCbCr (4:4:4)** : If your TV supports the YCbCr color space via HDMI, select this to output the normal YCbCr color gamut.
- **RGB (Standard)** : Select RGB (Standard) to output the normal RGB color gamut.
- **RGB (Enhanced)** : If you have connected the product to a DVI display device such as a monitor, select RGB (Enhanced) to output the enhanced RGB color gamut.

Movie Frame (24 Fs)

Setting the Movie Frame (24Fs) feature to **Auto** allows you to adjust the product’s HDMI output to 24 frames per second for improved picture quality. You can enjoy the Movie Frame (24Fs) feature only on a TV supporting this frame rate. You can select Movie Frame only when the product is in the HDMI 1080i or 1080p output resolution modes.

- **Auto** : Movie Frame (24Fs) functions work.
- **Off** : Movie Frame (24Fs) functions are off.

HDMI Deep Color

Lets you output video from the HDMI OUT jack with Deep Color. Deep Color provides more accurate color reproduction with greater color depth.

- **Auto**: The product outputs video with Deep Color to a connected TV which supports HDMI Deep Color.
- **Off** : The picture is output without Deep Color.

Still Mode

Lets you set the type of picture the product displays when you pause DVD playback.

- **Auto**: Automatically shows the best still picture depending on the content.
- **Frame** : Select when pausing a scene with a little action.
- **Field** : Select when pausing a scene with a lot of action.

Progressive Mode

Lets you improve picture quality when viewing DVDs.

- **Auto** : Select to have the product automatically select the best picture quality for the DVD you’re watching.
- **Video** : Select for the best picture quality from concert or TV show DVDs.

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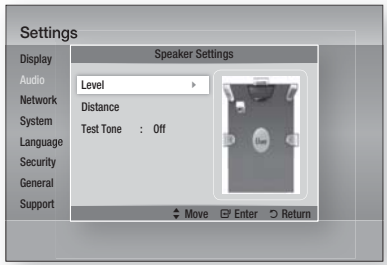
Audio

Speaker Settings

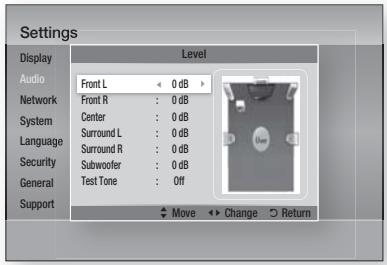


Level

You can adjust the balance and level for each speaker.

Adjusting Front /Center/Surround/Subwoofer Speaker Level

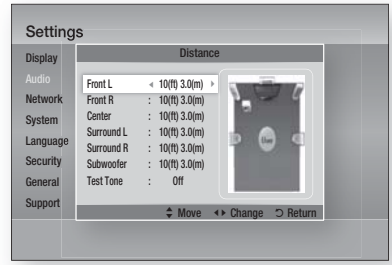
- You can adjust the volume level in steps from -6dB to +6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.



Distance

If you cannot place the speakers at equal distances from the listening position, you can adjust the delay time of the audio signals from the front, center, surround and subwoofer speakers.

- You can set the Speaker Distance between 1ft (0.3m) and 30ft (9.0m).



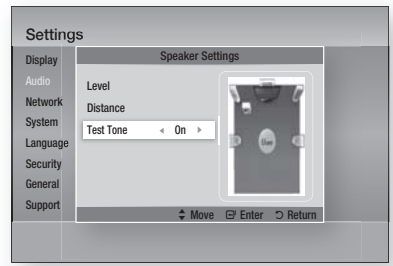
Test Tone

Use the Test Tone feature to check the speaker connections.

Press the ◄, ► buttons to select **ON**.

- A test tone will be sent to **Front L → Center → Front R → Surround R → Surround L → Subwoofer** in order so you can make sure the speakers are set up correctly.

To stop the test tone, press the ◄, ► buttons to select **Off**.



NOTE

- When HDMI Audio is ON (audio is produced through TV speakers), the Test Tone function is not available.

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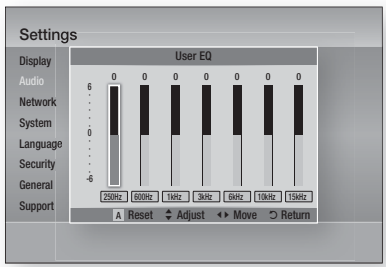
User EQ

You can configure the equalizer settings manually to your preference.



HDMI Audio

The audio signals transmitted over the HDMI Cable can be toggled On/Off.

- **Off :** Video is transmitted over the HDMI connection cable only, and audio is output through your product speakers only.
- **On :** Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.

NOTE

- HDMI Audio is automatically down-mixed to 2ch for TV speakers.

Audio Return Channel

You can enjoy TV sound from the Home Theater speakers by using just one HDMI cable.

- **Auto** : Listen to TV sound from the Home Theater speakers if your TV is compatible with the Audio Return Channel function.
- **Off** : Turn the Audio Return Channel function off.

NOTE

- When Anynet+ (HDMI-CEC) is Off, the Audio Return Channel function is not available.
- Using an ARC (Audio Return Channel) uncertified HDMI cable may cause a problem in compatibility.
- ARC function is only available if an ARC-compliant TV is connected.

Digital Output

You can set the Digital Output to match the capabilities of the AV receiver you've connected to the product :

- **PCM** : Choose if you have connected an HDMI supported AV receiver.
- **Bitstream (Unprocessed)** : Select if you have connected an HDMI supported AV receiver with Dolby TrueHD and DTS-HD Master Audio decoding capabilities.
- **Bitstream (Re-encoded DTS)** : Choose if you have connected an AV receiver using a Digital Optical input that can decode DTS.
- **Bitstream (Re-encoded Dolby D)** : Select if you don't have an HDMI supported AV receiver, but have an AV receiver with Dolby Digital decoding capabilities.

For more details, please refer to the digital output selection table. (See page 32)

Blu-ray Discs may include three audio streams :

- Main Feature Audio : The audio soundtrack of the main feature.
- BONUSVIEW audio : An additional soundtrack such as the director or actor's commentary.
- Navigation Sound Effects : When you choose some menu navigation, Navigation Sound Effects may sound. Navigation Sound Effects are different on each Blu-ray Disc.

NOTE

- Digital Output can be activated when HDMI Audio is ON.
- Be sure to select the correct Digital Output or you will hear no sound or just loud noise.
- If the HDMI device (AV receiver, TV) is not compatible with compressed formats (Dolby digital, DTS), the audio signal outputs as PCM.
- Regular DVDs do not have BONUSVIEW audio and Navigation Sound Effects.
- Some Blu-ray Discs do not have BONUSVIEW audio and Navigation Sound Effects.
- This Digital Output setup does not effect the analog (L/R) audio or HDMI audio output to your TV. It effects the optical and HDMI audio output when your product is connected to an AV receiver.
- If you play MPEG audio soundtracks, the audio signal outputs as PCM regardless of your Digital Output selections (PCM or Bitstream).

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Digital Output Selection

Setup		PCM	Bitstream (Unprocessed)	Bitstream (Re-encoded DTS)	Bitstream (Re-encoded Dolby D)
Connection		HDMI supported AV receiver	HDMI supported AV receiver	HDMI supported AV receiver	HDMI supported AV receiver
Audio Stream on Blu-ray Disc	PCM	Up to 7.1ch	PCM	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital	Up to 7.1ch	Dolby Digital	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby Digital Plus	Up to 7.1ch	Dolby Digital Plus	DTS re-encoded	Re-encoded Dolby Digital *
	Dolby TrueHD	Up to 7.1ch	Dolby TrueHD	DTS re-encoded	Re-encoded Dolby Digital *
	DTS	Up to 6.1ch	DTS	DTS re-encoded	Re-encoded Dolby Digital *
	DTS-HD HRA	Up to 7.1ch	DTS-HD HRA	DTS re-encoded	Re-encoded Dolby Digital *
	DTS-HD MA	Up to 7.1ch	DTS-HD MA	DTS re-encoded	Re-encoded Dolby Digital *
Audio Stream on DVD	PCM	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch
	Dolby Digital	Up to 5.1ch	Dolby Digital	Dolby Digital	Dolby Digital
	DTS	Up to 6.1ch	DTS	DTS	DTS
Definition for Blu-ray Disc	Any	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects.	Outputs only the main feature audio stream so that your AV receiver can decode the audio bitstream. You will not hear BONUSVIEW audio or Navigation Sound Effects.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into DTS bitstream.	Decodes the main feature audio and BONUSVIEW audio stream together into PCM audio and adds Navigation Sound Effects, then re-encodes the PCM audio into Dolby digital bitstream or PCM.

* If the Source Stream is 2ch, “Re-encoded Dolby D” Setting are not applied. Ouput will be LPCM 2ch.

Dynamic Range Control

You can listen at low volumes, but still hear dialog clearly. This is only active if your product detects a Dolby Digital signal.

- **Auto** : The Dynamic Range Control will be set automatically based on the information provided by the Dolby TrueHD Soundtrack.
- **Off** : Movie soundtracks are played using the standard Dynamic Range.
- **On** : When Movie soundtracks are played at low volume or through smaller speakers, the system can apply appropriate compression to make low-level content more intelligible and prevent dramatic passages from getting too loud.

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Audio Sync

Video may fall out of sync with the audio when the product is connected to a digital TV. If this occurs, adjust the audio delay time to match the audio to the video.

- You can set the audio delay time between 0 msec and 300 msec. Set it to the optimal status.

Network

Before you begin, contact your ISP to find out if your IP address is static or dynamic. If it is dynamic, and you are using a wired or wireless connection, we recommend using the Auto procedures. If you are using a wireless connection and your router has the capability, you can use WPS(PBC) or One Foot Connection.

If your IP address is static, you must use the manual set up procedure for both wired and wireless connections.

Network Settings

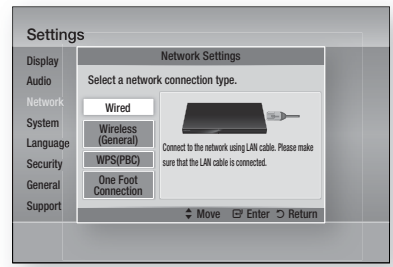
To begin setting up the network connection for your product, follow these steps:

1. In the Home menu, press the ◄► buttons to select **Settings**, and then press the **ENTER** button.
2. Press the ▲▼ buttons to select **Network**, and then press the **ENTER** button.
3. Press the ▲▼ buttons to select **Network Settings**, and then press the **ENTER** button.
4. Press the ▲▼ buttons to select **Wired**, **Wireless (General)**, **WPS(PBC)** or **One Foot Connection**, and then press the **ENTER** button.
5. If you have a wired network, go to Wired Network below. If you have a wireless network, go to Wireless Network on pages 34~36.

Wired Network

Setting Up a Wired Connection - Auto

1. Press the ▲▼ buttons to select **Wired**.



2. Press the **ENTER** button.
   The Network Status screen appears. The product connects to the network after the network connection is verified.

Setting Up a Wired Connection - Manual

If you have a static IP address or the Auto Setting does not work, you'll need to set the Network settings values manually.

To view your Network settings values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the Windows desktop.
2. In the pop-up menu, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support tab, click the Details button. The Network settings are displayed.

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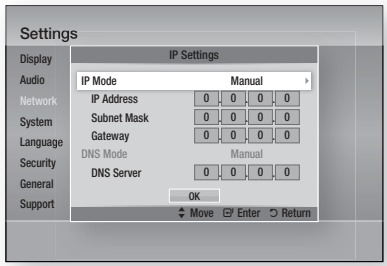
To enter the Network settings into your product, follow these steps:

1. Press the ▲▼ buttons to select **Wired**, and then press the **ENTER** button.
2. Press the ◄► buttons to select **IP Settings**, and then press the **ENTER** button.



3. Press the **ENTER** button to select **IP Mode**.
4. Press the ▲▼ buttons to select **Manual**, and then press the **ENTER** button.
5. Press the ▼ button to go to the first entry field (IP Address).
6. Use the number buttons on your remote to enter numbers.
7. When done with each field, press the ► button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
8. Enter the **IP Address**, **Subnet Mask**, and **Gateway** values.
9. Press the ▼ button to go to **DNS Mode**.
10. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
11. Press the **ENTER** button to select **OK**. The Network Status screen appears. The product connects to the network after the network connection is verified.

Wireless Network

You can setup a wireless network three ways:

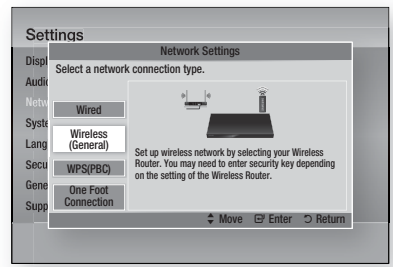
- Wireless (General)
- Using WPS(PBC).
- One Foot Connection

Wireless (General) includes both Automatic and Manual setup procedures.

Setting Up the Wireless Network Connection - Auto

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the Auto setup process.

1. Press the ▲▼ buttons to select **Wireless (General)**.



2. Press the **ENTER** button. When done, it displays a list of the available networks.
3. Press the ▲▼ buttons to select the desired network, and then press the **ENTER** button. The Security screen appears.

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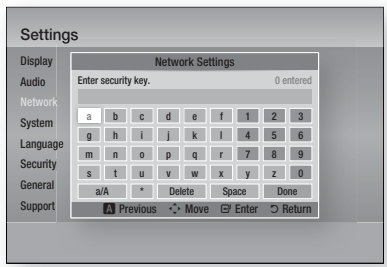
4. On the Security screen, enter your network's Pass Phrase. Enter numbers directly using your remote control.
   To select a letter, press the ▲▼◄► buttons to move the cursor, then press the **ENTER** button.



NOTE

- You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.

5. When done, press the ▲▼◄► buttons to move the cursor to **Done**, and then press the **ENTER** button.
   The Network Status screen appears. The product connects to the network after the network connection is verified.

Setting Up the Wireless Network Connection - Manual

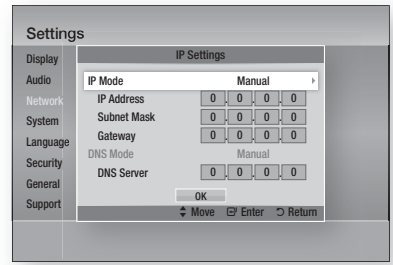
If the Auto Setting does not work, you need to enter the Network settings values manually.

To view the Network settings values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support tab, click the Details button. The Network settings are displayed.

To enter the Network settings into your product, follow these steps:

1. Follow Steps 1 through 5 in the 'Setting Up the Wireless Network Connection - Auto' procedure.
2. When done, press the ▲▼◄► buttons to move the cursor to **Done**, and then press the **ENTER** button. The Network Status screen appears.



3. On the Network Status screen, select Cancel, and then press Enter.
4. Press the ◄► buttons to select **IP Settings**, and then press the **ENTER** button.
5. Press the **ENTER** button to select **IP Mode**.
6. Press the ▲▼ buttons to select **Manual**, and then press the **ENTER** button.
7. Press the ▼ button to go to the first entry field (IP Address).
8. Use the number buttons to enter numbers.
9. When done with each field, press the ► button to move successively to the next field. You can also use the other arrow buttons to move up, down, and back.
10. Enter the **IP Address**, **Subnet Mask**, and **Gateway** values.
11. Press the ▼ to go to **DNS Mode**.
12. Press the ▼ button to go to the first DNS entry field. Enter the numbers as above.
13. The Network Status screen appears. The product connects to the network after the network connection is verified.

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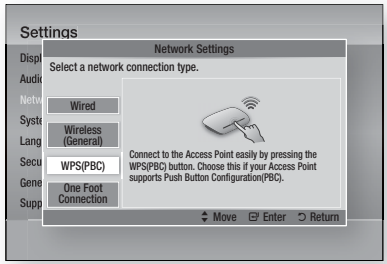
WPS(PBC)

The easiest way to set up the wireless network connection is using the WPS(PBC) function or the One Foot Connection function.

If your wireless router has a **WPS(PBC)** button, follow these steps:

1. Press the ▲▼ buttons to select **WPS(PBC)**.

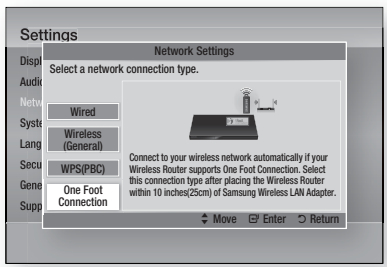


2. Press the **ENTER** button.
3. Press the **WPS(PBC)** button on your router within two minutes. Your product displays the Network Selection Screen, and automatically acquires all the network settings values it needs and connects to your network. When it is done, it displays an **OK** button. Press the **ENTER** button on your remote.

One Foot Connection

You can set up the wireless connection automatically if you have a Samsung Wireless Router which supports One Foot Connection. To connect using the One Foot Connection function, follow these steps:

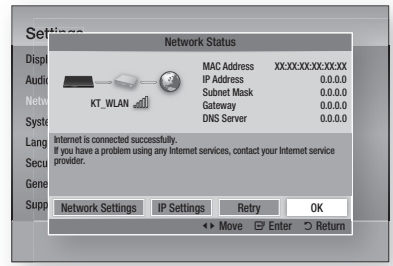
1. Press the ▲▼ buttons to select **One Foot Connection**.


Settings
Network Settings
Select a network connection type.
Wired
Wireless (General)
WPS(PBC)
One Foot Connection
Connect to your wireless network automatically if your Wireless Router supports One Foot Connection. Select this connection type after placing the Wireless Router within 10 inches(25cm) of Samsung Wireless LAN Adapter.
Move
Enter
Return

2. Press the **ENTER** button.
3. Place the Samsung Wireless Router within 25 cm (10 inches) of Samsung Wireless LAN Adapter to connect.
4. Wait until the connection is automatically established.

Network Status

Check whether a connection to the network and the Internet have been established.



BD-LIVE Internet Connection

Set to allow or prohibit an Internet connection when you use the BD-LIVE service.

- **Allow (All)** : The Internet connection is allowed for all BD-LIVE contents.
- **Allow (Valid Only)** : The Internet connection is allowed only for BD-LIVE contents containing a valid certificate.
- **Prohibit** : No Internet connection is allowed for any BD-LIVE content.

NOTE

- **What is a valid certificate?**
  When the product uses BD-LIVE to send the disc data and a request to the server to certify the disc, the server uses the transmitted data to check if the disc is valid and sends the certificate back to the product.
- The Internet connection may be restricted while you are using BD-LIVE contents.

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System

Initial Settings

By using the Initial Settings function, you can set the language, Network Settings, etc.
For more information about the Initial Settings function, refer to the Initial Settings section of this user manual. (See page 25)

Anynet+ (HDMI-CEC)

Anynet+ is a convenient function that offers linked operations with other Samsung products that have the Anynet+ feature.
To operate this function, connect this product to a Samsung TV with an HDMI cable.
With Anynet+ on, you can operate this product using a Samsung TV remote control and start disc playback simply by pressing the **PLAY** (▶) button on the TV's remote control. For more information, please see the TV user manual.

- **Off** : Anynet+ functions will not work.
- **On** : Anynet+ functions will work.

✎ NOTE

- This function is not available if the HDMI cable does not support CEC.
- If your Samsung TV has an Anynet+ logo, then it supports the Anynet+ function.
- Depending on your TV, certain HDMI output resolutions may not work.
  Please refer to the user manual of your TV.

BD Data Management

Lets you manage the downloaded contents you accessed through a Blu-ray Disc that supports the BD-LIVE service and stored on an attached Flash memory device.

You can check the device's information including the storage size, delete the BD data, or change the Flash memory device.

BD Data Management Screen Information :

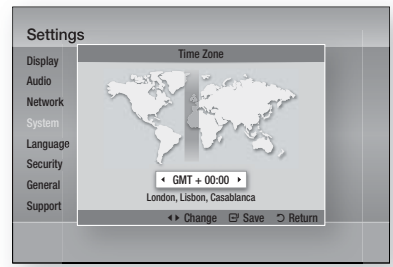
- **Current Device :** Display the selected device.
- **Total Size :** Total memory size of the device.
- **Available Size :** Available memory in the device.
- **Delete BD Data :** Delete all BD data in the storage.
- **Select Device :** Change the location (the device) in which the player stores BD data.

✎ NOTE

- In the external memory mode, disc playback may be stopped if you disconnect the USB device in the middle of playback.
- Only those USB devices formatted in the FAT file system (DOS 8.3 volume label) are supported. We recommend you use USB devices that support USB 2.0 protocol with 4 MB/sec or faster read/write speed.
- The Resume Play function may not work after you format the storage device.
- The total memory available to BD Data Management may differ, depending on the conditions.

Time Zone

You can specify the time zone that is applicable to your area.



DivX® Video On Demand

Shows the registration code authorized for the product. If you connect to the DivX web site and register using that code, you can download the VOD registration file. If you activate the VOD registration using My Contents, the registration is completed.

✎ NOTE

- For more information about DivX(R) VOD, visit "http://vod.divx.com".

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Reset

All settings will revert to the default except for the network and Smart Hub settings. You need to enter the password for this function to operate.

✎ NOTE

- The default password is 0000.

Language

You can select the language you prefer for the Home menu, disc menu, etc.

- **On-Screen Menu** : Select the language for the on-screen displays.
- **Disc Menu** : Select the language for the disc menu displays.
- **Audio** : Select the language for disc audio.
- **Subtitle** : Select the language for disc subtitles.

✎ NOTE

- The selected language will only appear if it is supported on the disc.

Security

This function works in conjunction with Blu-ray and DVD discs that have been assigned an age rating or numeric rating that indicates the maturity level of the content. These numbers help you control the types of Blu-ray and/DVD discs that your family can watch.

When you access this function for the first time, the password setup screen appears. Enter a desired 4-digit password using the number buttons. (The default password is 0000.)

After you have set your password, select an age rating you want to set for the BD Parental Rating and a rating level you want to set for the DVD Parental Rating. The product will only play Blu-ray discs rated at or below the age rating and DVD discs rated below the numeric rating unless the password is entered.

Larger numbers indicate more mature content.

BD Parental Rating

Prevents playback of Blu-ray discs with ratings above the Parental Rating you selected unless a password is entered.

DVD Parental Rating

Prevents playback of DVD discs with numerical ratings at or above the rating you selected unless a password is entered.

Change Password

Change the 4-digit password used to access security functions.

If you forgot your password

1. Remove the disc.
2. Press and hold the **STOP** (■) button on the front panel for 5 seconds or more.
   All settings will revert to the factory settings.

✎ NOTE

- When the factory default settings are restored, all the user stored BD data will be deleted.

General

Front Display

Change the brightness display of the front panel.

- **Auto** : Dim during playback.
- **Dim** : Dim the display window.
- **Bright** : Brighten the display window.

✎ NOTE

- You cannot change the brighness of the Power button and the Function button.

Network Remote Control

The Network Remote Control function lets you control your Blu-ray Home Theater from a remote device such as a smart phone through a wireless connection to your local area network.

To use the Network Remote Control function, follow these steps:

1. Select **On** in the Network Remote Control menu.
2. Install the Samsung network remote control application to control your product on your compatible portable device.
3. Make sure your portable device and your product are connected to the same wireless router.

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4. Start the application on your portable device. The application should find your product and display it on a list.
5. Select the product.
6. If this is the first time you are using the function, it will ask you to allow or deny remote control of the product. Select Allow.
7. Follow the instructions that came with the application to control the product.

Support

Software Upgrade

The Software Upgrade menu allows you to upgrade the product's software for performance improvements or additional services. You can upgrade in four ways:

- By Internet
- By USB
- By Disc
- By Downloaded (File)

The four methods are explained below.

By Internet

To upgrade by Internet, follow these steps:

1. Select **By Internet**, and then press the **ENTER** button. The Connecting to Server message appears.
2. If there is a download available, the Download pop-up appears with a progress bar and the download starts.
3. When the download is complete, the Upgrade Query window appears with three choices: Upgrade Now, Upgrade Later, or Don't Upgrade.
4. If you select Upgrade Now, the product upgrades the software, turns off, and then turns on automatically.
5. If you do not make a selection in one minute or select Upgrade Later, the product stores the new upgrade software. You can upgrade the software later using the By Downloaded function.
6. If you select Don't Upgrade, the product cancels the upgrade.

NOTE

- Your product must be connected to the Internet to use the By Internet function.
- The upgrade is complete when the product turns off, and then turns on again by itself.
- Never turn the product off or back on manually during the update process.
- Samsung Electronics shall take no legal responsibility for product malfunction caused by an unstable Internet connection or consumer negligence during a software upgrade.
- If you want to cancel the upgrade while the upgrade software is downloading, press the **ENTER** button.

By USB

To upgrade by USB, follow these steps:

1. Visit www.samsung.com/bluraysupport
2. Download the latest USB software upgrade zip archive to your computer.
3. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
4. Copy the folder to a USB flash drive.
5. Make sure the disc tray is empty, and then insert the USB flash drive into the USB port of the product.
6. In the product's menu, go to Settings > Support > Software Upgrade.
7. Select **By USB**.

NOTE

- The disc tray must be empty when you upgrade the software using the USB Host jack.
- When the software upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the product during the software upgrade. It may cause the product to malfunction.
- Software upgrades using the USB Host jack must be performed with a USB memory flash stick only.

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By Disc

To upgrade by Disc, follow these steps:

1. Visit www.samsung.com/bluraysupport.
2. Download the latest disc software upgrade zip archive to your computer.
3. Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
4. Write the folder onto a disc. We recommend a CD-R or DVD-R.
5. Finalize the disc before you remove it from your computer.
6. Insert the disc into product.
7. In the product's menu, go to Settings > Support > Software upgrade.
8. Select **By Disc**.

NOTE

- When the system upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the product during the Software Upgrade. It may cause the product malfunction.

By Downloaded

The By Downloaded option lets you upgrade using a file the product downloaded earlier but you decided not to install immediately or a file downloaded by the product in Standby Mode (See Download in Standby Mode below).

To upgrade By Downloaded, follow these steps:

1. If upgrade software has been downloaded, you will see the software version number to the right of By Downloaded.
2. Select By Downloaded, and then press the **ENTER** button.
3. The product displays a message asking if you want to upgrade. Select **Yes**. The product begins the upgrade.
4. When the update is complete, the product turns off automatically, and then turns on.

NOTE

- When the system upgrade is done, check the software details in the software Upgrade menu.
- Do not turn off the product during the software Upgrade. It may cause the product to malfunction.
- To use the By Downloaded function, your product must be connected to the Internet.

Download in Standby Mode

You can set the Download in Standby Mode function so that the product downloads new upgrade software when it is in Standby mode. In Standby mode, the product is off, but its Internet connection is active. This allows the product to download upgrade software automatically, when you are not using it.

To set Download in Standby Mode, follow these steps:

1. Press the ▲▼ buttons to select **Download in Standby Mode**, and then press the **ENTER** button.
2. Select **On** or **Off**.
   - **Off** : If you select **Off**, the product will notify you with a pop up message when new upgrade software is available.
   - **On** : If you select **On**, the product will automatically download new upgrade software when it is in Standby mode with the power off. If it downloads new upgrade software, the product will ask you if you want to install it when you turn the product on.

NOTE

- To use the Download in Standby Mode function, your product must be connected to the Internet.

Contact Samsung

Provides contact information for assistance with your product.

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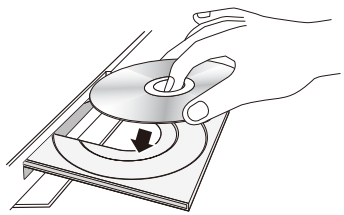
Playing a Disc

Playback

1. Press the **OPEN/CLOSE** (⏏) button to open the disc tray.
2. Place a disc gently into the tray with the disc's label facing up.



3. Press the **OPEN/CLOSE** (⏏) button to close the disc tray.
4. Press the **PLAY** (▶) button.

Playback related buttons

PLAY (▶)	Starts playback.
STOP (■)	Stops playback. • If you press the button once, the stop position is memorized. • If you press the button twice, the stop position is not memorized.
PAUSE (❚❚)	Pauses playback.

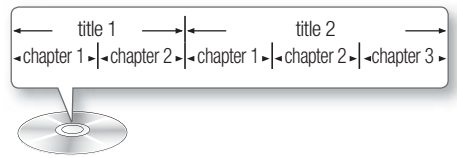
✎ **NOTE**

- For some discs, the product may not memorize the stop positon when you press the **STOP** (■) button.
- Video files with high bit rates of 20Mbps or more strain the product's capabilities and may stop playing during play back.

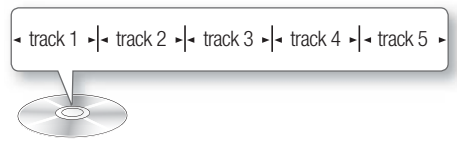
Disc Structure

The content of discs is usually divided as shown below.

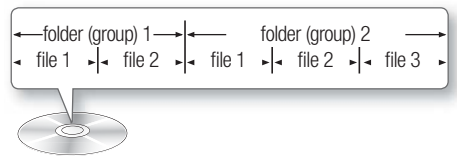
- **Blu-ray Disc, DVD-VIDEO**



- **Audio CD (CD-DA)**



- **MP3, WMA, DivX, MKV and MP4**



Using the Disc menu/Title menu/ Popup menu

Using the Disc Menu

BD-ROM DVD-VIDEO

1. During playback, press the **DISC MENU** button on the remote control.
2. Press the ▲▼◄ ► buttons to make a selection, and then press the **ENTER** button.

✎ **NOTE**

- Depending on the disc, the menu items may differ and this menu may not be available.

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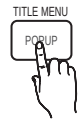
Using the Title Menu

DVD-VIDEO



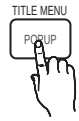
1. During playback, press the **TITLE MENU** button on the remote control.
2. Press the ▲▼◄ ► buttons to make the desired selection, and then press the **ENTER** button.

NOTE

- Depending on the disc, the menu items may differ and this menu may not be available.
- The Title Menu will only be displayed if there are at least two titles on the disc.

Using the Popup Menu

BD-ROM



1. During playback, press the **POPUP** button on the remote control.
2. Press the ▲▼◄ ► buttons or **ENTER** button to select the desired menu.

NOTE

- Depending on the disc, the menu items may differ and this menu may not be available.

Playing the Title List

BD-RE/-R

1. During playback, press the **DISC MENU** or **TITLE MENU** button.
2. Press the ▲▼ buttons to select an entry you want to play from Title List, then press the **ENTER** button.

Using the Search and Skip Functions

During playback, you can search quickly through a chapter or track, and use the skip function to jump to the next selection.

Searching for a Desired Scene

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- During playback, press the **SEARCH** (◀◀ ▶▶) button.
  Each time you press the **SEARCH** (◀◀ ▶▶) button, the playback speed will change as follows.

BD-ROM, BD-RE/-R, DVD-RW/-R, DVD+RW/+R, DVD-VIDEO	▶▶ 1 → ▶▶ 2 → ▶▶ 3 → ▶▶ 4 → ▶▶ 5 → ▶▶ 6 → ▶▶ 7 ◀◀ 1 → ◀◀ 2 → ◀◀ 3 → ◀◀ 4 → ◀◀ 5 → ◀◀ 6 → ◀◀ 7
DivX, MKV, MP4	▶▶ 1 → ▶▶ 2 → ▶▶ 3 ◀◀ 1 → ◀◀ 2 → ◀◀ 3

- To return to normal speed playback, press the **PLAY** (►) button.

NOTE

- The home theater does not play sound in search mode.
- If you press the ◀◀ or ▶▶ button too quickly, this product might function as if you are holding the button down. This will lead to improper operation. Be sure to not press these buttons too rapidly.

Skipping Chapters

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- During playback, press the **SKIP** (I◀◀ ▶▶I) button.
  If you press the **SKIP** (▶▶I) button, the disc moves to the next chapter.
  If you press the **SKIP** (I◀◀) button, the disc moves to the beginning of the chapter. One more press makes the disc move to the beginning of the previous chapter.

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Slow Motion Play/Step Motion Play

Slow Motion Play

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- In **pause** (❚❚) mode, press the **SEARCH** (▶▶) button.
  Each time you press the **SEARCH** (▶▶) button, the playback speed is reduced successively as follows: I▶ 1/8 I▶ 1/4 I▶ 1/2
- To return to normal speed playback, press the **PLAY** (▶) button.

NOTE

- The product does not play sound in slow mode.
- Slow motion operates only in the forward direction.

Step Motion Play

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

- In pause mode, press the **PAUSE** (❚❚) button. Each time you press the **PAUSE** (❚❚) button, a new frame appears.
- To return to normal speed playback, press the **PLAY** (▶) button.

NOTE

- The product does not play sound in step mode.
- Step motion operates only in the forward direction.

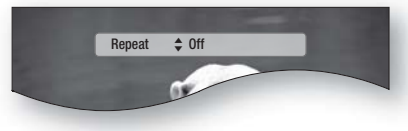
Repeat Playback

Repeat the Title or Chapter

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R DivX/MKV/MP4

Repeat the disc title or chapter.

1. During playback, press the **REPEAT** button on the remote control.
2. Press the ▲▼ buttons to select a **Chapter** or **Title**, and then press the **ENTER** button.



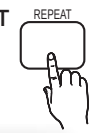
3. To return to normal play, press the **REPEAT** button again.
4. Press the ▲▼ buttons to select **Off**, and then press the **ENTER** button.

NOTE

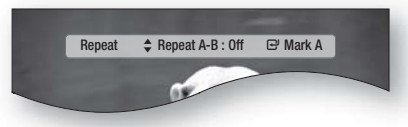
- Depending on the disc, the Repeat function may not be available.

Repeat the Section

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R



1. During playback, press the **REPEAT** button on the remote control.
2. Press the ▲▼ buttons to select **REPEAT A-B**.



3. Press the **ENTER** button at the point where you want repeat play to start (A).
4. Press the **ENTER** button at the point where you want repeat play to stop (B).
5. To return to normal play, press the **REPEAT** button again.
6. Press the **ENTER** button.

NOTE

- If you set point (B) before 5 seconds has elapsed, a prohibition message will appear.
- Depending on the disc, the Repeat function may not be available.

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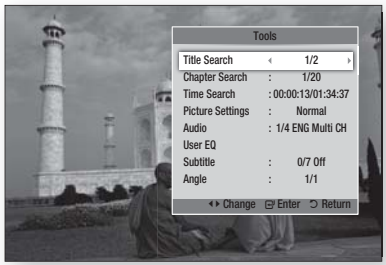
Using the TOOLS button

During playback, you can operate the disc menu by pressing the **TOOLS** button.

- TOOLS Menu Screen



NOTE

- Depending on the disc, the TOOLS menu may differ.

Moving to a Desired Scene Directly

BD-ROM BD-RE/-R DVD-VIDEO DVD±RW/±R

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Title Search**, **Chapter Search** or **Time Search**.
3. Enter the desired **Title**, **Chapter** or **Playing Time** using the number buttons, and then press the **ENTER** button.

Selecting the Audio Language

BD-ROM BD-RE/-R DVD-VIDEO DivX/MKV/MP4

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Audio**.
3. Press the **ENTER** button.
4. Press the ▲▼ buttons to select the audio language you want.

NOTE

- The ◄► indicator will not be displayed on the screen if the BONUSVIEW section does not contain any BONUSVIEW audio settings.
- Information about the primary / secondary audio modes will be also displayed if the Blu-ray Disc has a BONUSVIEW section. Use the ◄► button to switch between primary and secondary audio modes.
- The languages available depend on the languages that are encoded on the disc. This function or certain languages may not be available.
- Some Blu-ray Discs may allow you to select either the multi-channel LPCM or Dolby digital audio soundtrack in English.

Selecting the Subtitle Language

BD-ROM DVD-VIDEO DivX/MKV/MP4

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Subtitle**.
3. Press the ◄► buttons to select the desired subtitle language.

NOTE

- Depending on the Blu-ray / DVD disc, you may be able to change the subtitle language in the Disc Menu. Press the **DISC MENU** button.
- The subtitle languages available depend on the subtitle languages encoded on the disc. This function or certain languages may not be available on all Blu-ray / DVD discs.
- Information about the primary / secondary subtitle modes will also be displayed if the Blu-ray Disc has a BONUSVIEW section.
- This function changes both the primary and secondary subtitles at the same time.
- The total number of subtitles is the sum of the primary and secondary subtitles.

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Caption Function

DivX/MKV/MP4

- You must have some experience with video extraction and editing in order to use this feature properly.
- To use the caption function, save the caption file (*.smi) with the same file name as that of the DivX media file (*.avi) within the same folder.
  Example. Root Samsung_007CD1.avi
  Samsung_007CD1.smi
- You can use up to 60 alphanumeric characters or 30 East Asian characters (2 byte characters such as Korean and Chinese) for the file name.

Changing the Camera Angle

BD-ROM DVD-VIDEO

When a Blu-ray /DVD disc contains multiple angles of a particular scene, you can use the ANGLE function.

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Angle**.
3. Press the ◄► buttons to select the desired Angle.

Selecting the Picture Settings

BD-ROM BD-RE/-R DVD-VIDEO DVD+RW/+R

This function enables you to adjust video quality.

1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **Picture Settings**, and then press the **ENTER** button.
3. Press the ◄► buttons to select the desired **Mode**.
   - **Dynamic** : Choose this setting to increase Sharpness.
   - **Normal** : Choose this setting for most viewing applications.
   - **Movie** : This is the best setting for watching movies.
   - **User** : The user can adjust the Sharpness, Noise reduction, Contrast, Brightness, Color, Tint function respectively.

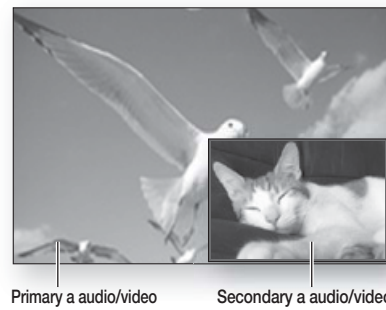
✎ **NOTE**

- If the system is connected to a BD Wise-compliant TV that has BD Wise set to On, the picture setting menu will not appear.

Setting the BONUSVIEW

BD-ROM

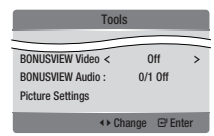
The BONUSVIEW feature allows you to view additional content (such as commentaries) in a small screen window while the movie is playing. This function is only available if the disc has the Bonusview feature.



1. During playback, press the **TOOLS** button.
2. Press the ▲▼ buttons to select **BONUSVIEW Video** or **BONUSVIEW Audio**.
3. Press the ◄► buttons to select the desired bonusview.

✎ **NOTE**

- If you switch from BONUSVIEW Video, BONUSVIEW Audio will change automatically in accordance with BONUSVIEW Video.



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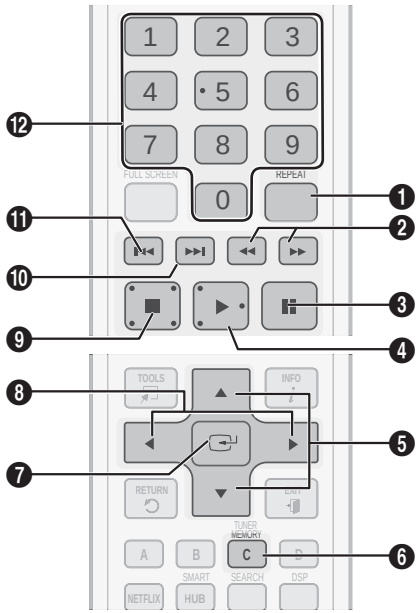
Listening to Music

Audio CD MP3/WMA

Buttons on the Remote Control used for Music Playback



❶	**REPEAT** button : Selects the play mode in the Playlist.
❷	**SEARCH** buttons : Audio CD (CD-DA) - Fast Play. MP3 - Jump Play. (10 seconds)
❸	**PAUSE** button : Pauses playback.
❹	**PLAY** button : Plays the currently selected track.
❺	▲▼ buttons : Selects a track in the Music List or Playlist.
❻	**YELLOW (C)** button : Select Edit Mode or Play Mode.
❼	**ENTER** button : Plays the selected track.
❽	► button : During playback, moves to the next page in the Music List or moves to the next track in the Playlist. ◄ button : During playback, moves to the previous page in the Music List or moves to the previous track in the Playlist.
❾	**STOP** button : Stops a track.
❿	⏭ button : Plays the next track.
⓫	⏮ button : Plays the previous track. If you press this button after three seconds of playback in the Playlist, the current track will be replayed from the beginning. But, if you press this button within three seconds after playback starts in the Playlist, the previous track will be played.
⓬	**NUMBER** button : During the Playlist playback, press the desired track number. The selected track will be played. (only Audio CD(CD-DA)

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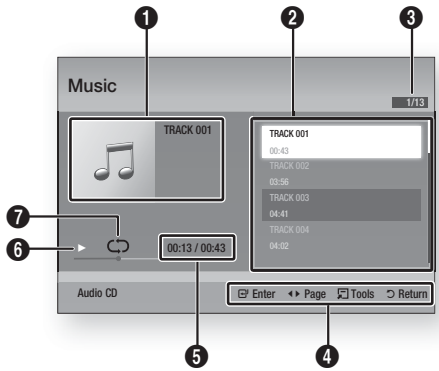
Playing an Audio CD (CD-DA)/MP3

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc tray.
   - For an Audio CD (CD-DA), the first track will be played automatically.
   - For an MP3 disc, press the ◄► buttons to select **Music**, then press the **ENTER** button.

Audio CD (CD-DA)/MP3 Screen Elements

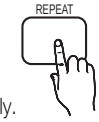


1	Displays the music information.
2	Displays the playlist.
3	Shows the current track/total tracks.
4	Displays buttons available.
5	Shows the current play time/total play time.
6	Displays the current playback status.
7	Displays the repeat playback status.

2. Press the ▲▼ buttons to select the track you want to play, and then press the **ENTER** button.

Repeat an Audio CD (CD-DA)/MP3

1. During the Playlist playback, press the **REPEAT** button.
2. Select the desired play mode by pressing the **REPEAT** button repeatedly.



Off	Audio CD (CD-DA)/MP3	Tracks on a disc are played in the order in which they were recorded on the disc.
(↻) One Song	Audio CD (CD-DA)/MP3	Current track is repeated.
(↻) All	Audio CD (CD-DA)/MP3	All tracks are repeated.

NOTE

- During playback, press the **TOOLS** button and set Shuffle Mode to On. You can play the tracks in a random order.

Playlist

1. Insert an Audio CD (CD-DA) or an MP3 Disc into the disc slot.
   - For an Audio CD (CD-DA), the first track will be played automatically.
   - For an MP3 disc, press the ◄► buttons to select **Music**, then press the **ENTER** button.
2. To move to the Music List, press the **STOP** (■) or **RETURN** button.
   The Music List screen is displayed.
3. Press the **YELLOW (C)** button to switch to **Edit Mode**.
4. Press ▲▼◄► to select a desired track, and then press **ENTER**. Repeat this procedure to select additional tracks.
   - The selected file will be checked.
   - To cancel your selection, press **ENTER** again to uncheck the track.

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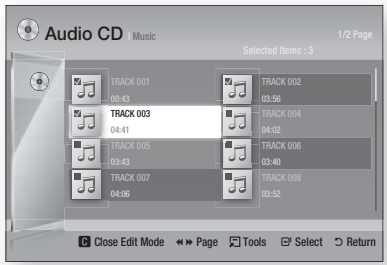
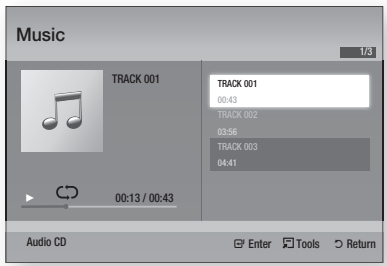


5. When done, press the **TOOLS** button.
6. To play the selected track(s), select Play Selected in the **Tools** menu, and then press **ENTER**.



7. To return to the **Edit Mode**, press **STOP** or **RETURN**.
8. To exit **Edit Mode**, press the **YELLOW (C)** button.

NOTE

- You can create a playlist with up to 99 tracks from Audio CDs (CD-DA).

Sound Mode

DSP (Digital Signal Processor) Function

You can select a mode to optimize the sound for audio based on your tastes.

Each time you press the **DSP** button, the DSP mode changes in the following order:

SMART SOUND → MP3 ENHANCER → POWER BASS → VIRTUAL 7.1 → USER EQ → DSPOFF

- **SMART SOUND** : Regulates and stabilizes the volume level and prevents a drastic volume change when you change channels or during a scene transition.
- **MP3 ENHANCER** : This also helps enhance your sound experience (ex. mp3 music). You can upscale your MP3 level sound (24 kHz, 8bit) to CD level sound (44.1 kHz, 16bit).
- **POWER BASS** : This function stresses low tones and provides thudding sound effects.
- **VIRTUAL 7.1** : Applies the 7.1 CH sound effect using the 5.1 CH speaker system.
- **USER EQ** : You can configure the equalizer settings manually to your preference.

SFE (Sound Field Effect) MODE

You can set the SFE mode best suited to the type of music you are listening to.

Press the **SFE MODE** button to select on of the following modes:

Symphony Hall in Boston (Hall 1)	Provides a clear vocal as if you are listening in a concert hall.
Phillharmonic Hall in Bratislava (Hall 2)	Also provides a clear vocal as if you are listening in a concert hall but, less powerful than HALL1.
Jazz Club in Seoul B	Recommended setting for Jazz.
Church in Seoul	Gives the feel of being in a grand church.
Amphitheater (Rock)	Recommended setting for Rock.
Off	Select Off for normal listening.

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Dolby Pro Logic II Mode

You can select the desired Dolby Pro Logic II audio mode.

Press the **PL II** button.

MUSIC	When listening to music, you can experience sound effects as if you are listening to the actual performance.
MOVIE	Adds realism to the movie soundtrack.
PROLOGIC	You can listen to a 2CH sound source in 5.1CH surround sound with all speakers active. - A specific speaker(s) may not output depending on the input signal.
MATRIX	You will hear multi channel surround sound.
STEREO	Select this to listen to sound from the front left and right speakers and the subwoofer only.

NOTE

- Before selecting the Dolby Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the product. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.

Playing back Pictures

JPEG

Viewing Photo Files

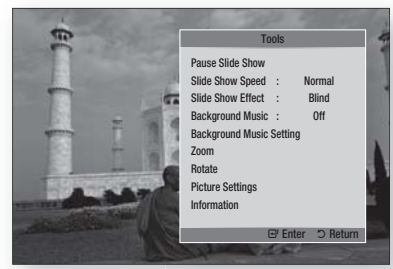
1. Connect a USB memory that contains JPEG files or insert a disc that contains JPEG files.
2. Press the ◄► buttons to select the **My Contents**, and then press the **ENTER** button after press the ▲▼ buttons to select the **Photos**.
3. Press the ▲▼◄► buttons to select the folder you want to play, and then press the **ENTER** button.
4. Press the ▲▼◄► buttons to select the photo you want to play, and then press the **ENTER** button.

NOTE

- You can't enlarge PG graphics in the full screen mode.

Using the TOOLS button

During slide show playback, you can use various function by pressing the **TOOLS** button.



- **Pause Slide Show** : Select to pause the slide show.
- **Slide Show Speed** : Select to adjust the slide show speed.
- **Slide Show Effect** : Select to set slide show effects.

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- **Background Music** : Select to listen to music while viewing a slide show.
- **Background Music Setting** : Select to set the background music.
- **Zoom** : Select to enlarge the current picture. (Enlarge up to 4 times)
- **Rotate** : Select to rotate the picture. (Rotate the picture either clockwise or counter clockwise.)
- **Picture Settings** : Select to adjust the picture quality.
- **Information** : Shows the picture information including the name and size, etc.

✎ NOTE

- If the system is connected to a BD Wise compliant TV that has BD Wise set to On, the Picture Settings menu will not appear.
- To enable the background music function, the photo file must be in the same storage media as the music file. Note, however, that the sound quality can be affected by the bit rate of the MP3 file, the size of the photo, and the encoding method.

Playing back a USB Storage Device

USB

You can use the USB connection to play multimedia files (MP3, JPEG, DivX, etc) downloaded from a USB storage device.

1. Move to the home menu.

2. In Stop mode, connect the USB storage device to the USB port on the front panel of the product.

3. Press the **ENTER** button.
4. Press the ▲▼◄► buttons to select Videos, Music, or Photos, and then press the **ENTER** button.
5. For playing back Video, Music or Photo files, refer to pages 41~50.

✎ NOTE

- When you remove the USB storage device, you must remove it safely to prevent damage to the USB memory. To remove the USB device safely, follow these steps:
  1. Press the **MENU** button to move to the Home menu.
  2. Press the **YELLOW (C)** button on your remote, and then press the **ENTER** button.
  3. Remove the USB device
- If you open the tray when playing a USB storage device, the device mode is changed to “BD/DVD” automatically.

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Listening to the Radio

Using buttons on the Remote Control

1. Press the **FUNCTION** button to select **FM**.
2. Tune in to the desired station.
   - **Preset Tuning 1** : You must first add a desired frequency as a preset. See Presetting Stations below. To select a preset frequency, press the **STOP** (■) button to select **PRESET**, and then press the **TUNING/CH** (∧∨) button to select the preset station.
   - **Manual Tuning** : Press the **STOP** (■) button to select **MANUAL** and then press the **TUNING/CH** (∧∨) button to tune in to a lower or higher frequency.
   - **Automatic Tuning** : Press the **STOP** (■) button to select **MANUAL** and then press and hold the **TUNING/CH** (∧∨) button to search the band automatically.

Setting Mono/Stereo

Press the **MO/ST** button.

- Each time you press the button, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select **MONO** for a clear, interference-free broadcast.

Presetting Stations

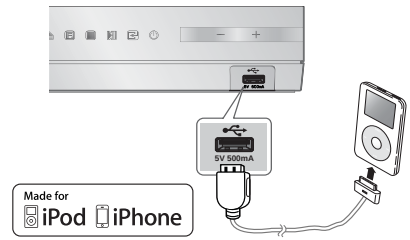
Example : Presetting FM 89.10 into memory

1. Press the **FUNCTION** button to select **FM**.
2. Press the **TUNING/CH** (∧∨) button to select <89.10>.
3. Press the **TUNER MEMORY** button.
   - NUMBER flashes on the display.

4. Press the **TUNER MEMORY** button again.
   - Press the **TUNER MEMORY** button before NUMBER disappears from the display.
   - NUMBER disappears from the display and the station is stored in memory.
5. To preset another station, repeat steps 2 to 4.
   - To tune to a preset frequency, press the **STOP** (■) button to select **PRESET**, and then press the **TUNING/CH** (∧∨) button to select the preset station.

Connecting an iPod/iPhone Using the USB Cable

If the home theater is connected to an iPod/iPhone, you can play music in the iPod/iPhone through the home theater.



1. Connect an iPod/iPhone to the front USB port using a USB cable.
   - Your iPod is automatically turned on.
   - The "iPod" message appears on the TV screen.
2. Press the **ENTER** button.
3. Select the music file to play.
   - You can use the remote control or the product to control simple playback functions such as the **PLAY**, **PAUSE**, **STOP**, **I◀◀ /▶▶I** and **◀◀ /▶▶** buttons. (See page 16.)

NOTE

- If you want to return to the iPod menus while the iPod player is connected using the USB cable, press **FUNCTION** on the remote control or press ⊡ on the front panel of the system and select **R. IPOD**. The **FUNCTION** mode switches as follows: **BD/DVD → D. IN → AUX → R. IPOD → FM**

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iPod/iPhone Models You Can Use with This Product

- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)

- iPod classic
- iPod with video

- iPod with dock connector
- iPod with Click Wheel

- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)

- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

NOTE

- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPods and has been certified by the developer to meet Apple performance standards.
- "Made for iPhone" means that an electronic accessory has been designed to connect specifically to iPhones and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- The volume control may not operate normally with iPod and iPhone models not listed above. If you have a problem with any of the models listed above, please update the software of the iPod/iPhone to the lastest version.
- Depending on the software version of the iPod, control problems may occur. This is not a malfunction of the Home Theater.
- Depending on the software version or the type of the iPod, some operations may differ. Install the latest iPod software. (recommended)
- Playback of applications' contents through the product is not guaranteed. We recommend playing contents downloaded to the iPod.
- If you have a problem using your iPod, please visit www.apple.com/support/ipod

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Network Services

You can enjoy various network services such as Smart Hub or BD-LIVE by connecting the product to your network.

Read the following instructions before using any network service.

1. Connect the product to the network. (see pages 23~24)
2. Configure the network settings. (see pages 33~36)

Using Smart Hub

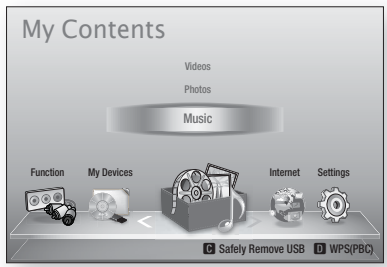
Using Smart Hub, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV. Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

You can also start this function by pressing the **SMART HUB** button on the remote control.

Starting Smart Hub the First Time

To start Smart Hub for the first time, follow these steps :

1. Go to the Home menu.



2. Press the ◄► buttons to select **Internet**, and press the **ENTER** button.
3. The Smart Hub screen appears.

NOTE

- Certain applications are available only in certain countries.

4. The Terms of Service Agreement screen appears.
   Press the ◄► buttons to select **Agree**, then press the **ENTER** button.

NOTE

- Screens can take a few seconds to appear.

5. The Service Update screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are displayed on the Smart Hub screen. This may take some time.

NOTE

- Smart Hub may close momentarily during the installation process.
- A number of screens may appear after installation. You can press the **ENTER** button to close them or let them close on their own.

6. To start an application, press the ▲▼◄► buttons to highlight an application, then press the **ENTER** button.

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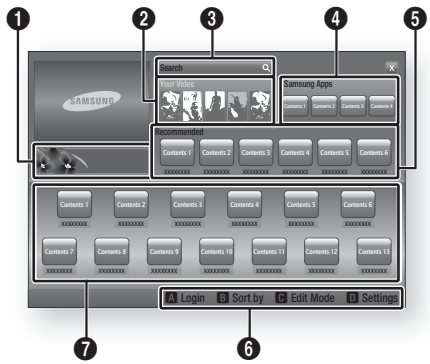
Network Services

Smart Hub at a Glance



❶	**Commercial** : Displays the Smart Hub Guide, an introduction to the product, and new application introductions.
❷	**Your Video** : Provides recommendations for videos based on your tastes. • Lets you see movie recommendations based on your previous preferences. • Lets you select a movie, displays a list of VOD (Video on Demand) providers that have the movie, and then lets you choose a provider for streaming. (Streaming is unavailable in some areas.) • For instructions to use Your Video, please visit www.samsung.com. • This feature is limited to certain regions.
❸	**Search** : Provides an integrated search of your video providers and connected AllShare devices. • Usable while using Smart Hub (except when you are watching a Blu-ray Disc). • For easy access, use the **SEARCH** button on the remote control. • For instructions to use the search function, please visit www.samsung.com.
❹	**Samsung Apps** : You can download various for pay or free-of-charge application services.
❺	**Recommended** : Displays recommended contents managed by Samsung.
❻	**Navigation Help** : Displays the remote control buttons you can use to navigate in Smart Hub. • **RED (A)** : To log in to Smart Hub. • **GREEN (B)** : To sort the applications. • **YELLOW (C)** : To edit the applications. • **BLUE (D)** : To change the settings of Smart Hub.
❼	**My Applications** : Displays your personal gallery of applications which you can add to, modify, and delete.

✎ NOTE

- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your TV screen. If the Internet connection is unstable, the service may be delayed or interrupted. Furthermore, the product may turn off automatically in response to conditions on the Internet.
  If this occurs, check the Internet connection and try again.
- Application services may be provided in English only and the contents available may vary, depending on your area.
- For more information about a Smart Hub service, visit the web site of the applicable service provider.
- The services provided are subject to change by the Smart Hub service provider without notice.
- The Smart Hub service contents may differ depending on the product's firmware version.
- For pay DivX contents with copy protection can only be played through an HDMI cable.

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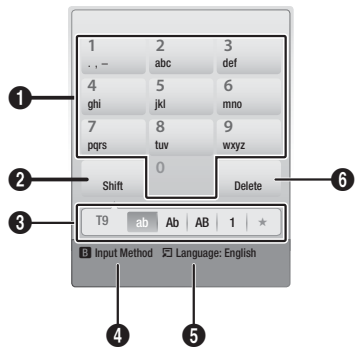
Using the Keypad

Through your remote, you can use the On-Screen Keypad to enter letters, numbers, and symbols.



❶	The current keypad. Use to enter letters, numbers, and symbols.
❷	Press the **FULL SCREEN** button on the remote control to shift the input mode. : ab, Ab, AB, numbers or icons.
❸	Displays the current input mode.
❹	Press the **GREEN (B)** button on the remote control to change the input method. (T9 or ABC)
❺	Press the **TOOLS** button on the remote control to change the language.
❻	Press the **REPEAT** button on the remote control to delete a character.

Entering Text, Numbers and Symbols

To enter text, press the number button on the remote that corresponds to the letter you want to enter. Press the button rapidly to enter a letter that is not the first letter listed on the On-Screen keypad button. For example, if you want to enter the letter b, press the 2 button on your remote rapidly twice. To enter the first letter listed on a button, press, release, and then wait.

To move within the text, use the Arrow buttons. To delete text, move the cursor to the right of the character you want to delete, and then press the **REPEAT** button. To change case or enter numbers or punctuation, press the **FULL SCREEN** button.

Creating an Account

To establish your own, exclusive, configuration of Smart Hub, create your own Smart TV Account.

To create an account, follow these steps:

1. Press the **RED (A)** button on your remote control. The Login screen appears.

2. Press the ▲▼◄► buttons to select **Create Account**, and then press the **ENTER** button.
3. On the next screen, select **Smart TV ID**, and then press the **ENTER** button. An entry screen and keypad appear.
4. Use the keypad to enter your e-mail address. This will serve as your ID.

NOTE

- The keypad works like the keypad on a cell phone.

5. When done, press the **ENTER** button to select **OK**, and then press the **ENTER** button again. The Create Account screen re-appears.
6. Select **Password**, and then press the **ENTER** button. The Password screen and a keypad appear.
7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and symbols.

NOTE

- Press the **RED (A)** button on your remote to show or hide the password as you enter it.

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8. When done, press the **ENTER** button to select **OK**, and then press the **ENTER** button again. The Login screen re-appears.
9. Select **Confirm password**, and then press the **ENTER** button.
10. Repeat Steps 7 and 8.
11. When the Login screen re-appears, select **Create Account**, and then press the **ENTER** button. The Confirmation window appears.
12. Select **OK**, and then press the **ENTER** button. The Continue to Register Service window appears.
13. Select **Go Register**, and then press the **ENTER** button.
14. The Register Service Account Window appears.
    - If you have existing accounts with any of the listed providers, you can associate the provider account and the provider account password with your Smart TV Account. Registration makes it easier to access the providers web site. For registration instructions, go to Step 2 in Account Management under the Settings Menu.
    - If you don't have existing provider accounts or do not want to register existing accounts at this time, select **Register Later**, and then press the **ENTER** button. You can also let the window close on its own in about a minute.

✎ **NOTE**

- You must use an e-mail address as an ID.
- You can register up to 10 User Accounts.
- You do not need an account to use Smart Hub.

Account Log In

To log in to your Smart TV Account, follow these steps:

1. With the Smart Hub main screen displayed on your TV, press the **RED (A)** button on your remote. The Login screen appears.
2. Select the **Down Arrow** next to the **Smart TV ID** field, and then press the **ENTER** button.
3. Select your ID from the list that appears, and then press the **ENTER** button. The Login screen re-appears.
4. Select **Password**, and then press the **ENTER** button. The Password window and a keypad appears.
5. Using the keypad and your remote, enter your password. When done, press the **ENTER** button, select **OK**, and then press the **ENTER** button again.

✎ **NOTE**

- If you want Smart Hub to enter your password automatically, select Remember my Smart TV ID and password after you have entered your password, and then press the **ENTER** button. A check appears. Smart Hub will now enter your password automatically when you select or enter your ID.

The Settings Menu - BLUE (D)

The Settings Menu Screen gives you access to account management, account reset, and account properties functions.

To access the Settings Menu, and then select a menu item, follow these steps:

1. Press the **BLUE (D)** button on your remote.
2. Press the ▲▼ to select a menu item, and then press the **ENTER** button.

The functions on the Settings Menu screen are described below.

✎ **NOTE**

- The Service Manager item listed in the Settings Menu is not available for Blu-ray Home Theaters.

Account Management

The Account Management Menu contains functions that let you register your service provider accounts, change your Smart Hub password, and delete or deactivate your Smart TV Account.

Register Service Account

If you have existing accounts with any of the providers listed by the Register Service Account function, you can associate the provider account and the provider account password with your Smart TV Account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

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To use the Register Service Account function, follow these steps:

1. In the Settings menu, select Register Service Account, and then press the **ENTER** button. The Register Service Account Window appears.
2. Press the ▲▼ arrow buttons to select a Service Provider you want to associate with your Smart TV Account, and then press the **ENTER** button.

✎ **NOTE**

- If you have a Samsung account and you want to use the Samsung Apps function in Smart Hub, you must register your Samsung Apps account here. See page 60 for more information.

3. Using your remote and the on-screen Keypad, enter your site ID and password. When done, press the **ENTER** button.

✎ **NOTE**

- This is the ID and password you normally use to access your account on this site.

4. If you have entered the ID and password correctly, the Registered Successfully message appears.
5. If you pressed **ENTER**, repeat Steps 2 through 4 to associate another Service Provider.
6. When you are done, press the **RETURN** button.

Change Password

The Change Password function lets you change your Smart Hub password. To change the password, follow these steps:

1. Select **Change Password**, and then press the **ENTER** button.
2. Enter your current password. The next screen appears.
3. On the next screen, enter a new password on the first line. Enter it again on the second line to confirm.
4. The Changing Password Complete message screen appears. Press the **ENTER** button or wait for the screen to close - about 5 seconds.

Remove from TV Account List

The Remove from TV Account List function cancels all your current registered Service Accounts that you registered on the Register Service Account screen.

Deactivate Account

The Deactivate Account function deactivates your Smart TV Account and deletes it and all your account settings entirely from Smart Hub.

Service Manager

The Service Manager menu lets you manage special applications (such as AP News, Ticker, etc.)

✎ **NOTE**

- This function is available only if a special application is installed.

Reset

The Reset function initializes all downloaded application, erases all user accounts and settings from the product, and resets all Smart Hub settings to the factory default settings. It then restarts Smart Hub as if it were starting for the first time. Your account, however, remains on the Smart Hub server. To log into your account, enter your ID and password on the Create Account screen.

To use the Reset function, follow these steps:

1. In the Account Management menu, select Reset, and then press the **ENTER** button. The Reset screen appears.
2. Enter the your Security password. This is the password you entered if you set up a BD or DVD Parental rating (See page 38). If you did not, enter 0000.
3. After a few moments, Smart Hub automatically resets. The screen may go black, then Smart Hub re-appears. In a few moments, it starts the re-initialization procedure.

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4. To complete the re-initialization, go to Step 4 in Starting Smart Hub for the First Time. (See page 53)

✎ NOTE

- If you forgot your password, press the **STOP** (■) button on the front panel of the product for more than 5 seconds with no disc inserted.

Properties

The Properties menu item lists two functions that display information about Smart Hub :

Detail

Lists information about Smart Hub including version number, the number of services installed, memory usage, and the unique product ID.

Terms of Service Agreement

Displays the Terms of Service Agreement.

The Edit Mode Menu - YELLOW (C)

The functions in the Edit Mode menu let you manipulate the applications in the My Applications section of the Smart Hub screen. Using these functions, you can lock and unlock access to some applications, create new folders and move applications to them, rename folders, delete applications, and change the position of applications on the screen.

To access the Edit Mode Menu, and then select a menu item, follow these steps:

1. Press the **YELLOW (C)** button on your remote. The Edit Mode menu bar appears on the bottom of the screen.
2. Press the ▲▼◄► to select a menu item, and then press the **ENTER** button.

The functions in the Edit Mode Menu bar are described below.

✎ NOTE

- Some menu items may not appear on the screen. To see these items, press the ◄► to move to the screen edge, and then press one more time to reveal the items.
- You can close the bar by highlighting the X on the bottom right side, and then pressing the **ENTER** button.

Move

The Move function lets you change the screen position of an application. To use the Move function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Select an application, and then press the **ENTER** button. A check appears above the application.
3. Press the ▲▼◄► to select **Move**, and then press the **ENTER** button. A position change icon appears above the application.
4. Press the ▲▼◄► to move the icon. Press the **ENTER** button when the icon is in the position of your choice. The application moves to its new location.

New Folder

The New Folder function lets you create and name new folders. Once you have created a folder, you can move applications into it. To use the New Folder function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the ▲▼◄► to move the cursor to New Folder, and then press the **ENTER** button. The New Folder window and a keypad appear.
3. Use the keypad to enter the name of the folder, and then press the **ENTER** button. The New Folder screen closes and the New Folder appears on the Smart Hub screen.

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Move to Folder

The Move to Folder function lets you move an application to a folder. To use the Move to Folder function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Select an application, and then press the **ENTER** button.
3. Press the ▲▼◄► to select Move to Folder, and then press the **ENTER** button. The Move to Folder window opens.
4. Press the ▲▼◄► to select a folder, and then press the **ENTER** button. The Moved to Folder message appears, and then closes. The application has been moved to the folder.

To Access an Application in a Folder

1. Close the Edit Mode menu.
2. In My Applications, press the ▲▼◄► to select a folder, and then press the **ENTER** button. The folder opens.
3. Select an application, and then press the **ENTER** button. The application or service starts.

To Edit Items in a Folder

Select a folder, and then press the **ENTER** button. The folder opens.

Press the **YELLOW (C)** button on your remote. The Edit buttons appear at the bottom of the screen.

These buttons work the same as the Edit Mode menu buttons on the main screen. For example, to move an application back to the My Applications main screen:

1. Select the application.
2. Select Move to Folder, and then press the **ENTER** button. The Move to Folder window appears.
3. Select My Apps, and then press the **ENTER** button. The Move to Folder window closes and the application returns to the main My Applications screen.

Rename Folder

The Rename Folder function lets you rename folders. To use the Rename Folder function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the ▲▼◄► to select a folder, and then press the **ENTER** button.
3. Press the ▲▼◄► to select Rename a Folder, and then press the **ENTER** button. The Folder Rename window and a keyboard appears.
4. Use the key board to enter a new name, and then press the **ENTER** button. The Rename window closes and the new name appears below the folder.

Lock

The Lock function lets you lock some applications in My Applications so they can not be opened without entering the Parental Security Code.

To use the Lock function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the ▲▼◄► to select an application, and then press the **ENTER** button. If the application can be locked, the Lock menu item is enabled.
3. Press the ▲▼◄► to select Lock, and then press the **ENTER** button. The Security window appears.
4. Enter your Parental Security Code (See page 38). If you have not created a Parental Security Code, enter 0000.
5. Press the **ENTER** button. The Lock Service window appears confirming the lock, and then closes. A lock symbol appears next to the application.

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Unlock

1. Press the **YELLOW (C)** button on your remote.
2. Press the ▲▼◄► to select a locked application, and then press the **ENTER** button.
3. Press the ▲▼◄► to select Unlock, and then press the **ENTER** button. The Security window appears.
4. Enter the Parental Security Code (See page 38). If you have not created a Parental Security Code, enter 0000.
5. Press the **ENTER** button. The Lock Service Released window appears confirming the lock has been release, and then closes.

Delete

The Delete function lets you delete applications from My Applications. To use the Delete function, follow these steps:

1. Press the **YELLOW (C)** button on your remote.
2. Press the ▲▼◄► to select an application, and then press the **ENTER** button.
3. Press the ▲▼◄► to select Delete, and then press the **ENTER** button. The message, “Do you want to delete the selected item(s)?” appears.
4. Select **Yes**, and then press the **ENTER** button. The application is deleted.

The Sort by Menu - GREEN (B)

The functions in the Sort Menu let you sort the applications in My Applications by Default, Name, Date, Frequency, Category, and User Defined. If you manually change the position of an application, the Sort Menu automatically highlights User Defined when you start it.

To sort the applications in My Applications, follow these steps:

1. Press the **GREEN (B)** button on your remote.
2. Press the ◄► to select a sorting method, and then press the **ENTER** button. Smart Hub sorts the applications by the method you have chosen.

Samsung Apps

Samsung Apps lets you download for pay or free-of-charge applications and services to your Blu-ray Home Theater and view or use them on your TV.

These applications and services include videos, music, photos, games, news, sports, etc. The new apps appear in My Applications.

Additional applications and services are added regularly.

For Pay Apps

To download for pay apps, you need to create a Samsung Account and add a credit card to the account.

To create a Samsung account, please visit www.samsung.com

✎ **NOTE**

- This service may not provided in some countries.

Accessing the Samsung Apps Screen

To access Samsung Apps, press the ▲▼◄► buttons to navigate to the Samsung Apps area on the Smart Hub main screen, and then press the **ENTER** button. The Samsung Apps screen appears.

✎ **NOTE**

- If this is the first time you are accessing this screen, the terms of service window appears. Select Agree, and then press the **ENTER** button.

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Using the Samsung Apps Screen

To use the Samsung Apps screen, follow these steps:

1. Press the ◄► buttons to move to the category list on the left.
2. Press the ▲▼ to highlight a category. In a few seconds, the Samsung Apps screen displays the applications in that category. The Sort tabs appear across the top.
3. Press the ► button to move to the displayed applications or services.
4. Press the ▲▼◄► buttons to select an application or service, and then press the **ENTER** button. The Application Details screen appears describing the service or application.
5. Select Download Now, and then press the **ENTER** button. If the application or service is free, it downloads and runs. If not, and there is a fee, follow the directions on the screen to complete the download.

✎ **NOTE**

- Some apps are free to download, but require registration with the provider or a paid account with the provider to use.
- Applications and services you have downloaded from Samsung Apps appear in My Applications.

Sort By Tabs

You can access the Sort By tabs on the top of the screen using the ▲▼◄► buttons. Each tab displays the services or applications in the category you chose, sorted by the criteria on the tab (Recommended, Most Downloaded, Most Recent, Name).

You can also use the **BLUE (D)** button on your remote to access the Sort By tabs. Each time you press the **BLUE (D)** button, you change the display from one sort tab to the next.

Samsung Apps by category

The following categories are available:

- **What's New?** : Displays newly registered applications.
- **Video** : Displays various video media such as movies, TV shows, and short length videos.
- **Game** : Displays various games such as sudoku and chess.
- **Sports** : Displays various sports media services that provide match information, images, and short length videos.
- **Lifestyle** : Includes various lifestyle media services that provide music, personal photo management tools, etc,, and social networking functions such as Facebook and Twitter.
- **Information** : Includes various information services that provide news, stock market info, weather, etc.
- **Other** : Includes other miscellaneous services.

My Account

My Account gives you access to your Samsung Apps order and download history, and to the My Apps Cash screen. You must have a Samsung account to access this information.

Help

If you have questions about Samsung Apps, check Help first. If none of the tips apply, please visit www.samsung.com.

To use the Help function, follow these steps:

1. Press the ▲▼◄► buttons to select Help, and then press the **ENTER** button.
2. Press the ◄► to enter Help after it appears.
3. Press the ▲▼ to scroll the Help text.
4. Press the ◄ to exit Help.

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Network Services

Using the colored buttons on your remote with Samsung Apps

- **RED (A) (Login)** : To log into your Smart TV Account.
- **GREEN (B) (Thumbnail/List View)** : To toggle applications between Thumbnail and List view.
- **BLUE (D) (Sort By)** : To sort the applications in a category by Recommended, Most Downloaded, Most Recent, or Name.
- **Return** : To return to the previous menu.

NOTE

- The Internet contents services may be added or deleted by providers without notice.

For instructions to use Your Video or the Search function, please visit www.samsung.com

BD-LIVE™

Once the product is connected to the network, you can enjoy various movie-related service contents using a BD-LIVE compliant disc.

1. Attach a USB memory stick to the USB jack on the front of the product, and then check its remaining memory. The memory device must have at least 1GB of free space to accommodate the BD-LIVE services.
2. Insert a Blu-ray disc that supports BD-LIVE.
3. Select an item from various BD-LIVE service contents provided by the disc manufacturer.

NOTE

- The way you use BD-LIVE and the provided contents may differ, depending on the disc manufacturer.

Using the AllShare Function

AllShare lets you play music, video, and photo files located in your PC or your DLNA compatible mobile phone or NAS on the product.

To use AllShare with your product, you must connect the product to your network (See pages 23~24).
To use AllShare with your PC, you must install AllShare software on your PC.

If you have a DLNA compatible mobile phone or NAS, you can use AllShare without any additional software.

You can download the PC software and get detailed instructions for using AllShare from the Samsung.com web site.

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Other Information

Troubleshooting

Refer to the chart below when this product does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, turn off the product, disconnect the power cord, and contact Samsung Electronics at 1-800-SAMSUNG (1-800-726-7864).

Symptom	Check/Remedy
I cannot eject the disc.	• Is the power cord plugged securely into the outlet? • Turn off the power and then turn it back on.
The iPod fails to connect.	• Check the condition of the iPod connector. • Keep the iPod software version up to date.
Playback does not start.	• Check the region number of the BD/DVD. BD/DVD discs purchased from abroad may not be playable. • CD-ROMs and DVD-ROMs cannot be played on this Product. • Make sure that the rating level is correct.
Playback does not start immediately when the Play/Pause button is pressed.	• Are you using a deformed disc or a disc with scratches on the surface? • Wipe the disc clean.
Sound is not produced.	• The home theater does not play sound during fast playback, slow playback,and step motion playback. • Are the speakers connected properly? Is the speaker setup correctly customized? • Is the disc severely damaged?
Sound can be heard only from a few speakers and not all 6.	• On certain BD/DVD discs, sound is output from the front speakers only. • Check if the speakers are connected properly. • Adjust the volume. • When listening to a CD, radio or TV, sound is output to the front speakers only. Select "PRO LOGIC II" by pressing PL II (Dolby Pro Logic II) on the remote control to use all six speakers.
Dolby Digital 5.1 CH Surround Sound is not produced.	• Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound. • Is the audio language correctly set to Dolby Digital 5.1-CH in the information display?
The remote control does not work.	• Are you operating the remote within its operational range and within the proper angle relative to the sensor? • Are the batteries drained? • Have you selected the mode (TV/BD) functions of the remote control (TV or BD) correctly?
• Disc is rotating but no picture is produced. • Picture quality is poor and picture is shaking.	• Is the TV power on? • Are the video cables connected properly? • Is the disc dirty or damaged? • A poorly manufactured disc may not be playable.
Audio language and subtitles do not work.	• Audio language and subtitles will not work if the disc does not contain them.
Menu screen does not appear even when the menu function is selected.	• Are you using a disc that does not contain menus?

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Other Information

Symptom	Check/Remedy
Aspect ratio cannot be changed.	• You can play 16:9 BD/DVDs in 16:9 Wide mode, 4:3 Letter Box mode, or 4:3 Pan - Scan mode, but 4:3 BD/DVDs can be seen in 4:3 ratio only. Refer to the Blu-ray Disc jacket and then select the appropriate function.
• **The product is not working. (Example: The power goes out or a strange noise is heard.)** • **The Product is not working normally.**	• Press and hold the romote control's **STOP** (■) button for 5 seconds in STANDBY mode. - Using the RESET function will erase all stored settings. Do not use this unless necessary.
You have forgotten the rating level password.	• With no disc in the product, press and hold the product's **STOP** (■) button for longer than 5 seconds. **INIT** appears on the display and all settings return to their default values. Then, press the **POWER** button. - Using the RESET function will erase all stored settings. Do not use this unless necessary.
Can't receive radio broadcasts.	• Is the antenna connected properly? • If the antenna's input signal is weak, install an external FM antenna in an area with good reception.
While listening to TV audio through the Product, no sound is heard.	• If you press the **OPEN/CLOSE** (⏏) button while listening to TV audio using the D. IN or AUX functions, the BD/DVD functions are turned on and the TV audio is muted.
"Not Available" appears on screen.	• The features or action cannot be completed at this time because: 1. The BD/DVD's software restricts it. 2. The BD/DVD's software doesn't support the feature (e.g., angles) 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.
If the HDMI output is set to a resolution your TV cannot support (for example, 1080p), you may not see a picture on your TV.	• Press and hold the **STOP** (■) button on front panel for more than 5 seconds with no disc inserted. All settings will revert to the factory settings.
No HDMI output.	• Check the connection between the TV and the HDMI jack of the product. • Check if your TV supports 480p/720p/1080i/1080p HDMI input resolution.
Abnormal HDMI output screen.	• If random noise appears on the screen, it means that TV does not support HDCP (High-bandwidth Digital Content Protection).

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Symptom	Check/Remedy
PC Share Manager function	
I can see folders shared through the PC Share Manager, but I cannot see the files.	• Share Manager displays only Image, Music, and Movie files. Files that do not correspond to these categories may not be displayed.
AllShare function	
Video is played intermittently.	• Check if the network is stable. • Check if the network cable is properly connected and if the network is not overloaded. • The Wireless connection between the server and the product is unstable. Check the connection.
AllShare connection between TV and PC is unstable.	• IP addresses under the same subnetwork should be unique. If they are not, IP interference can cause this phenomenon. • Check if you have a firewall enabled. If so, disable the firewall function.
BD-LIVE	
I cannot connect to the BD-LIVE server.	• Check whether the network connection is functioning by using the Network Test menu. • Check whether a USB memory device is connected to the product. • The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available memory in BD Data Management. (See page 37) • Check whether the BD-Live Internet Connection menu is set to Allow (All). • If the recommendations above fail, contact the content provider or update the product's firmware to the latest version.
When using the BD-LIVE service, an error occurs.	• The memory device must have at least 1GB of free space to accommodate the BD-LIVE service. You can check the available memory in BD Data Management. (See page 37)

✎ NOTE

- When the factory default settings are restored, all the user data stored in BD data is deleted.

Repairs

If you contact us to repair your product, an administration fee may be charged if either:

1. An engineer is called out to your home at your request and there is no defect in the product.
2. You bring the unit to a repair center and there is no defect in the product.

We will provide you with the amount of the administration fee before we make a home visit or begin any work on your product.
We recommend you read this manually thoroughly, search for a solution on line at www.samsung.com, or contact Samsung Customer Care at 1-800-SAMSUNG (726-7864) before seeking to repair your product.

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Specifications

General	Power Requirements	AC 120V, 60Hz	
	Power Consumption	76 W	
	Weight	6.9 lbs	
	Dimensions	16.93 (W) x 2.36 (H) x 10.99 (D) inches	
	Operating Temperature Range	+41°F to +95°F	
	Operating Humidity Range	10 % to 75 %	
FM Tuner	Signal/noise ratio	55 dB	
	Usable sensitivity	12 dB	
	Total harmonic distortion	0.5 %	
Disc	BD (Blu-ray Disc)	Reading Speed : 9.834 m/sec	
	DVD (Digital Versatile Disc)	Reading Speed : 6.98 ~ 7.68 m/sec.	
		Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.	
	CD : 5 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.	
		Maximum Play Time : 74 min.	
	CD : 3 1/2 inches (COMPACT DISC)	Reading Speed : 4.8 ~ 5.6 m/sec.	
		Maximum Play Time : 20 min.	
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)	
		Blu-ray Disc : 480i	DVD : 480i
	Component Video	Y : 1.0 Vp-p (75 Ω load)	
		Pr : 0.70 Vp-p (75 Ω load)	
		Pb : 0.70 Vp-p (75 Ω load)	
		BD : 480i DVD : 480p, 480i	
Video/Audio	HDMI	1080p, 1080i, 720p, 480p	
		PCM multichannel audio, Bitstream audio, PCM audio	
Amplifier	Front speaker output	165W x 2(3Ω)	
	Center speaker output	170W(3Ω)	
	Surround speaker output	165W x 2(3Ω)	
	Subwoofer speaker output	170W(3Ω)	
	Frequency response	Analog input	20Hz~20kHz (±3dB)
		Digital input	20Hz~40kHz (±-4dB)
	S/N Ratio	70dB	
	Channel separation	60dB	
	Input sensitivity	(AUX)500mV	

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Other Information

Speaker	Speaker system	5.1ch speaker system			
		Front	Surround	Center	Subwoofer
	Impedance	3 Ω	3 Ω	3 Ω	3 Ω
	Frequency range	140Hz~20kHz	140Hz~20kHz	140Hz~20kHz	40Hz ~ 160Hz
	Output sound pressure level	86dB/W/M	86dB/W/M	86dB/W/M	88dB/W/M
	Rated input	165W	165W	170W	170W
	Maximum input	330W	330W	340W	340W
	Dimensions (W x H x D)	Front : 3.54 x 5.5 x 2.75 inches Surround : 3.0 x 4.2 x 2.75 inches Center : 8.97 x 3.03 x 2.75 inches Subwoofer : 6.61 x 13.78 x 11.22 inches			
	Weights	Front : 0.94 lbs, Surround : 0.73 lbs Center : 1.06 lbs, Subwoofer : 8.38 lbs			

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.
- Design and specifications are subject to change without prior notice.
- Dispose unwanted electronics through an approved recycler.
  To find the nearest recycling location, go to our website:
  www.samsung.com/recyclingdirect Or call, (877) 278 - 0799

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English **Avis Cinavia** : This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. When a prohibited use of an unauthorized copy is detected, a message will be displayed and playback or copying will be in interrupted.
More information about Cinavia technology is provided at the Cinavia Online Consumer Information Center at http://www.cinavia.com.
To request additional information about Cinavia by mail, send a postcard with your mailing address to: Cinavia Consumer Information Center, P.O. Box 86851, San Diego, CA, 92138, USA.
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